ORDER NO. AD9006159C7

Service Manual

Amplifier

Stereo Integrated Amplifier

SU-G50

Color

(K) ..... Black Type

Area

Country Code	Areas	Color
(GC)	Asia, Latin America, Middle Near East and Africa	(K)
(GN)	Oceania	
(PX)	Far East-PX	

SPECIFICATIONS

(DIN 45 500)

■ AMPLIFIER SECTION

40 Hz~20 kHz continuous power output	
both channels driven	2×85 W (8Ω)
DIN power output	2×100 W (8Ω)
Total harmonic distortion	
rated power at 40 Hz~20 kHz	0.09% (8Ω)
rated power at 1 kHz	0.05% (8Ω)
half power at 1 kHz	0.03% (8Ω)
Intermodulation distortion	
rated power at 50 Hz: 7 kHz=4:1, SMPTE, 8Ω	0.09%
Power bandwidth both	
channels driven, −3 dB	10 Hz~20 kHz (8Ω, THD 0.09%)
Residual hum and noise	1 mV
Input sensitivity and impedance	
PHONO	2.5 mV/47 kΩ
TUNER, CD, TAPE, VCR 2/TV, VCR 1/EQ	150 mV/47 kΩ
PHONO maximum input voltage (1 kHz, RMS)	128 mV (135 mV, IHF '66)
S/N	
rated power (8Ω)	
PHONO	71 dB (IHF '66: 78 dB)
TUNER, CD, TAPE, VCR 2/TV, VCR 1/EQ	70 dB (IHF '66: 90 dB)
Frequency response	
PHONO	RIAA standard curve ±0.8 dB (30 Hz~15 kHz)
TUNER, CD, TAPE, VCR 2/TV, VCR 1/EQ	10 Hz~80 kHz (+0, −3 dB)
Tone controls	
BASS	50 Hz, +10 dB~−10 dB
TREBLE	20 kHz, +10 dB~−10 dB
Super bass	80 Hz, +6 dB
Muting	−20 dB
Output voltage	
TAPE, VCR 1/EQ REC OUT	150 mV
Channel balance, CD 250 Hz~6,300 Hz	±1 dB
Channel separation, CD, 1 kHz	50 dB
Headphones output level and impedance	670 mV/330Ω
Load impedance	
A or B	8Ω~16Ω
A and B	8Ω~16Ω

■ GENERAL

Power consumption	510 W
Power supply	
For Oceania:	AC 50 Hz/60 Hz, 240 V
For others:	AC 50 Hz/60 Hz, 110 V/127 V/220 V/240 V
Dimensions (W×H×D)	430×130.5×310 mm (16 15/16″×5 1/8″×12 7/32″)
Weight	7.6 kg (16.7 lb.)

Notes:

1. Specifications are subject to change without notice.
2. Weight and dimensions are approximate.
3. Total harmonic distortion is measured by the digital spectrum analyzer.

Technics

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SU-G50

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■ BEFORE REPAIR

(1) Turn off the power supply. Using a 10Ω, 5 W resistor connect both ends of power supply capacitors (C701, C702, 10000 μF) in order to discharge the voltage.

(2) Before turning the power supply on, after completion of repair, slowly apply the primary voltage by using a power supply voltage controller to make sure that the consumed current at 50 Hz/60 Hz in NO SIGNAL mode should be shown below with respect to supply voltage 110 V/127 V/220 V/240 V.

Power supply voltage	AC 110 V	AC 127 V	AC 220 V	AC 240 V
Consumed current 50 Hz	260~510 mA	300~550 mA	100~400 mA	80~330 mA
Consumed current 60 Hz	208~408 mA	240~440 mA	80~320 mA	64~264 mA

■ PROTECTION CIRCUITRY

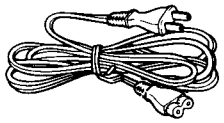
The protection circuitry may have operated if either of the following conditions is noticed:
*No sound is heard when the power is switched ON.
*Sound stops during a performance.
The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are "shorted", or if speaker systems with an impedance less than the indicated rated impedance of this unit are used.
If this occurs, follow the procedure outlined below:

1. Switch OFF the power.
2. Determine the cause of the problem and correct it.
3. Switch ON the power once again.

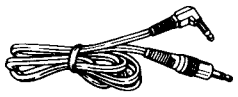
Note:
When the protection circuitry functions, the unit will not operate unless the power is first switched OFF and then ON again.

■ ACCESSORIES

- AC power supply cord 1
  (SJA173)...For (GN) area only.
  (RJA0004)...For others.



- L-type cable (SJP2257T) 1

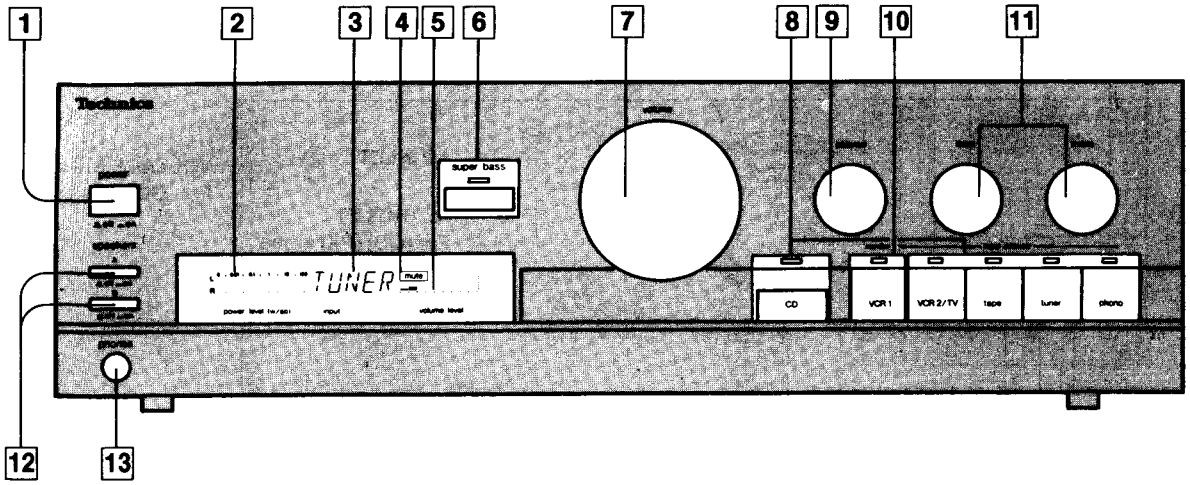


- AC attachment plug 1
  (SJP9215)...For (GC), (PX) areas.

Configuration of AC power supply cord differs according to area.

■ LOCATION OF CONTROLS

•Front panel



1 Power switch (power)

2 Peak-power indicators (power level)
These indicators indicate the peak power value of the output level to the speaker systems.

3 Input selector/volume level display (input)
This display usually shows the sound source selected by the input selectors; when the volume-control is used to adjust the volume level, the level is displayed in decibel for about two seconds, after which the display returns again to indication of the sound source.

4 Muting indicator (mute)
This indicator will illuminate when the muting button on the remote-control transmitter (not included) is pressed. (Refer to the operating instructions of the component with which the remote-control unit is included.)
To cancel the muting function without using the remote-control transmitter, press and hold the "phono" input selector of this unit for about 4 seconds.
Note:
The unit will switch to the phono mode.

5 Volume indicator (volume level)
Indicates the volume output level at a glance.

6 Super bass switch/indicator (super bass)
Low frequency sounds are reinforced when this switch is pressed.
The indicator will illuminate.

7 Volume control (volume)

8 Input selectors/indicators (input selector)
These selectors are used to select the sound source to be heard, such as a disc, radio broadcasts, etc. The corresponding input selector indicator illuminates during operation to indicate the selected sound source.
The selected sound source is also displayed on the input selector/volume level display.

9 Balance control (balance)
This control is used to adjust the left/right volume balance.

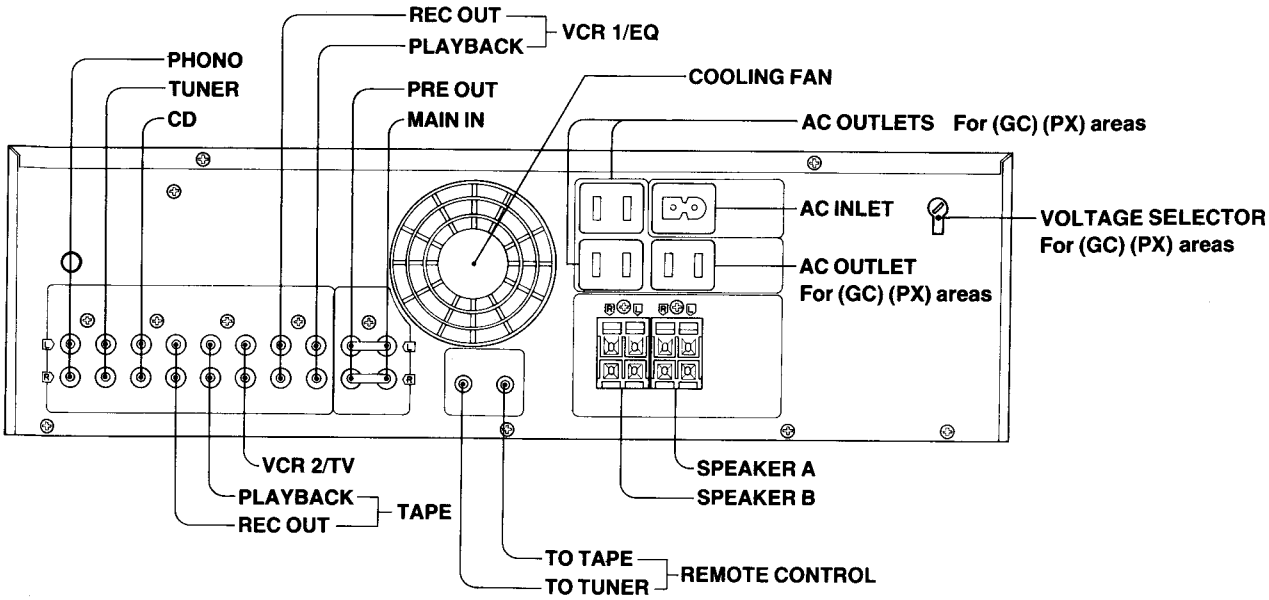
10 VCR 1-monitor switch/indicator (monitor)
Set this switch to the ON position (so that the indicator above is illuminated) when using a graphic equalizer or, playing back or monitoring the sound from a VCR connected to the "VCR 1/EQ" terminals. This selector should be set to the OFF position (indicator off) at all other times.

11 Tone controls (bass/treble)
The bass control is used to adjust the low-frequency sound range, and the treble control is used to adjust the high-frequency sound range.

12 Speaker selectors (speakers)
These selectors are used to turn the speaker systems on and off.

13 Headphones jack (phones)

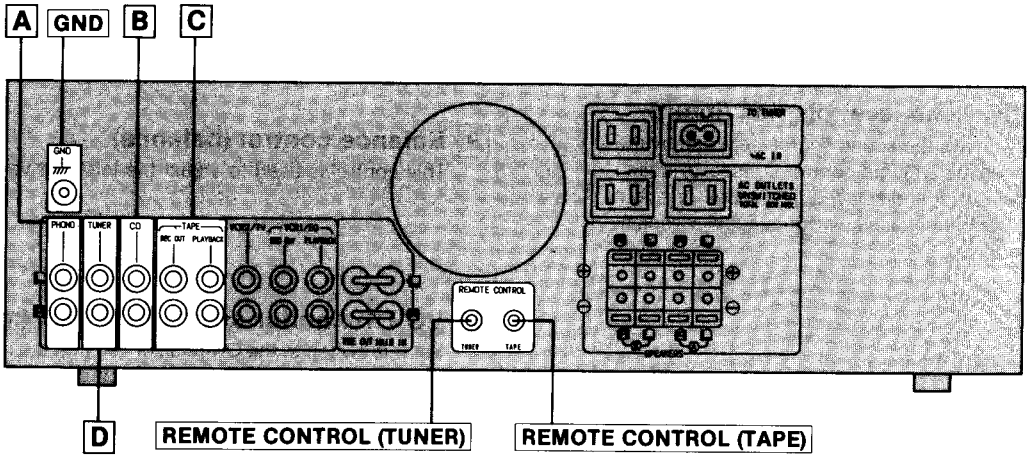
●Rear panel



※Phono input capacitance is about 100 pF.

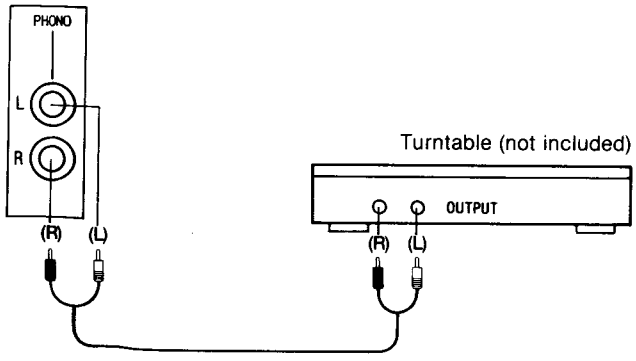
■ CONNECTIONS

Make connections to each component in the system by using stereo connection cables (not included).



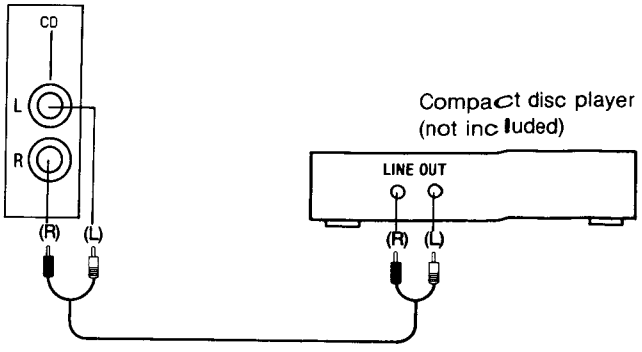
A "PHONO" terminals

Connect a turntable.



B "CD" terminals

Connect a compact disc player.

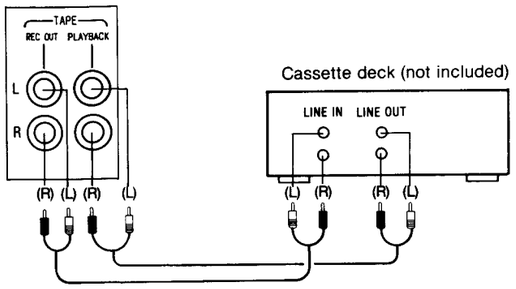


■ GND terminal

This terminal is for use with a turntable which has a ground wire.

C "TAPE" terminals

Connect a tape deck.

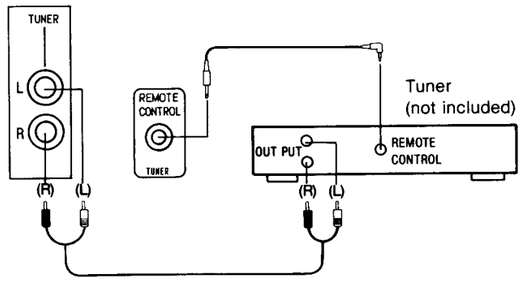


■ REMOTE CONTROL (TAPE) terminal

This terminal is used to connect a Technics tape deck with the control terminal.

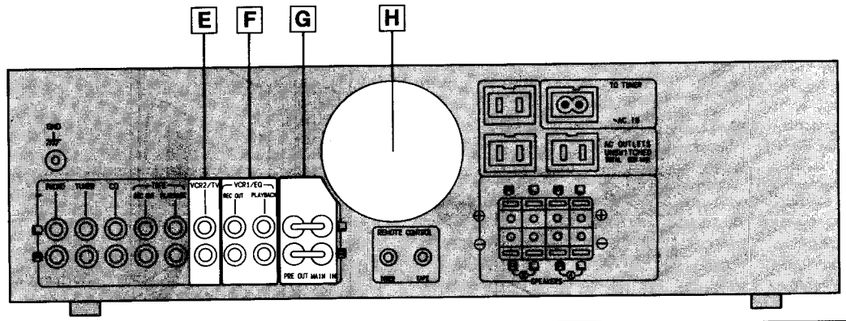
D "TUNER" terminals

Connect a tuner.



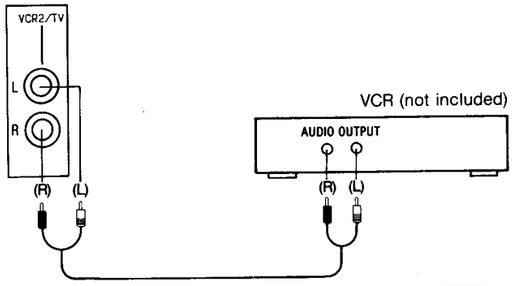
■ REMOTE CONTROL (TUNER) terminal

This terminal is used to connect a Technics tuner with the control terminal. Connect the L-type cable (included).



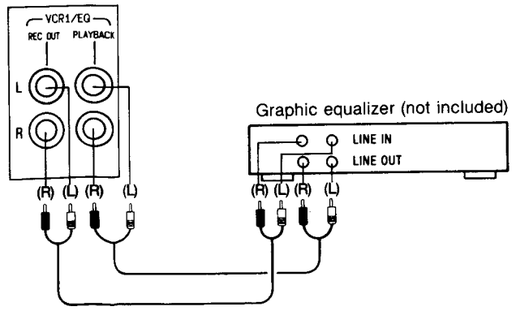
E "VCR 2/TV" terminals

Connect a second video cassette recorder or TV.



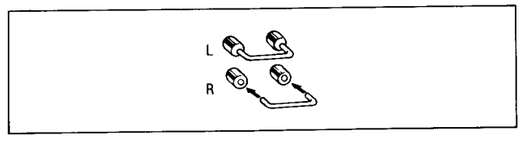
F "VCR 1/EQ" terminals

Connect a video cassette recorder or a graphic equalizer.



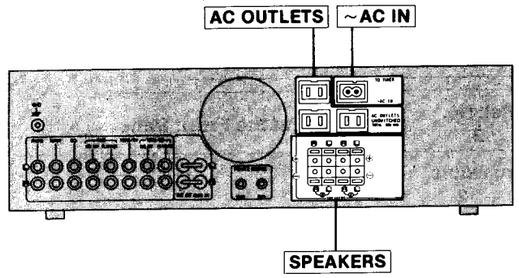
G "PRE OUT/MAIN IN" terminals

Do not remove the shorting pins from these terminals unless you plan to use an independent preamplifier or main amplifier. (No sound will be heard if they are removed). To use it in this way, consult the operating instructions for the additional amplifier or preamplifier that you plan to use.



H Cooling fan

The cooling fan operates at high output power levels only.



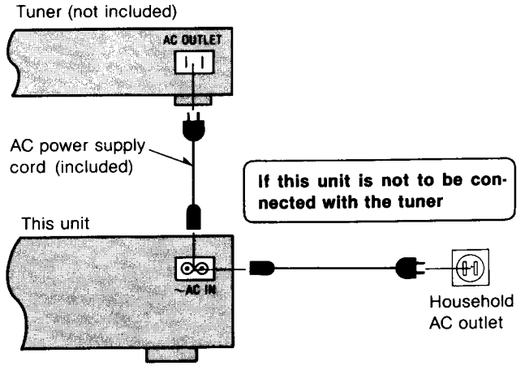
(See text at right.)

"AC OUTLETS" (UNSWITCHED)

Power is always available, regardless of power switch.
Audio equipment rated up to 60 W (total for all outlets) can be connected here.
For (GC), (PX) areas.

AC power supply cord

Connect the AC power supply cord (included) after all other cables and cords are connected.

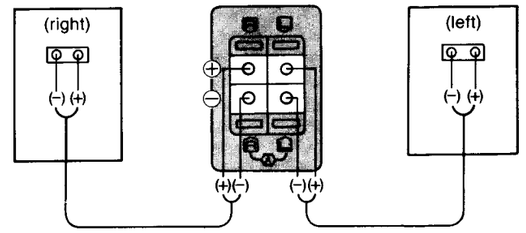

Tuner (not included)
AC OUTLET
AC power supply cord (included)
If this unit is not to be connected with the tuner
This unit
~AC IN
Household AC outlet

Connection to speaker systems

Two pairs of speaker systems (main, second) can be connected to this unit.
Speaker systems that can be connected (to any of the speaker connection terminals of this unit) are speaker systems with an impedance of 8 to 16 ohms.

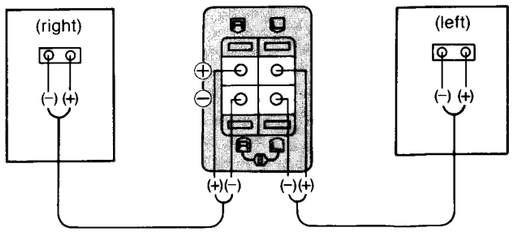
Main speaker systems (not included)

Connect to the "A" terminals.



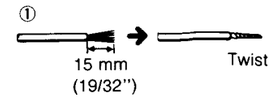
Second speaker systems (not included)

Connect to the "B" terminals.



To connect cords to terminals

① Strip off the outer covering, and twist the center conductor.

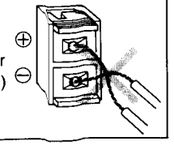


② Tilt the lever back and insert the cord.

③ Close the lever and pull the cord gently to be sure that it is secure.

Note:
Be sure to only connect positive (+) cords to positive (+) terminals, and negative (–) cords to negative (–) terminals.

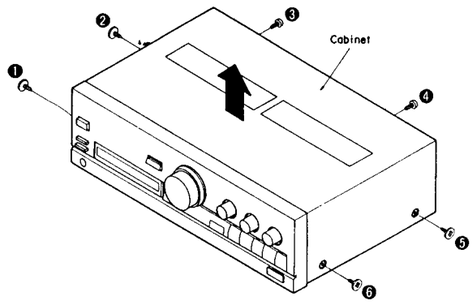
Note:
To prevent damage to circuitry, never short-circuit the plus (+) and minus (–) speaker cords.



■ DISASSEMBLY INSTRUCTIONS

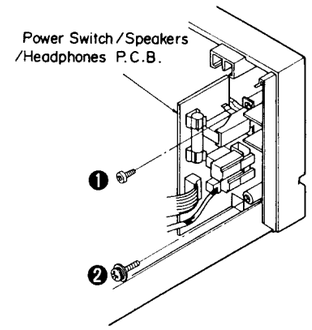
"ATTENTION SERVICER"
Some chassis components may have sharp edges. Be careful when disassembling and servicing.

Ref. No. 1	Removal of the Cabinet
Procedure 1	



•Remove the 6 screws (❶~❻).

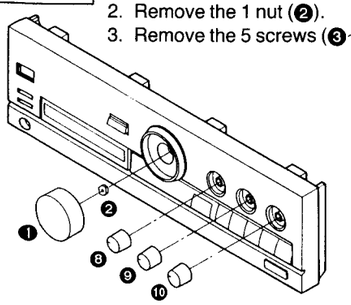
Ref. No. 3	Removal of the Power Switch/ Speakers/Headphones P.C.B.
Procedure 1→2→3	



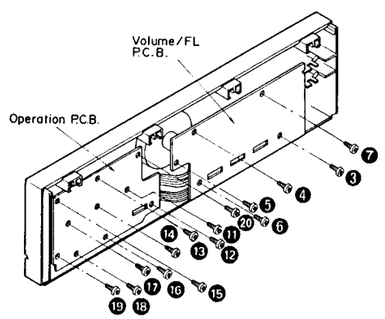
•Remove the 2 screws (❶, ❷).

Ref. No. 4	Removal of the Volume/FL P.C.B. and Operation P.C.B.
Procedure 1→2→4	

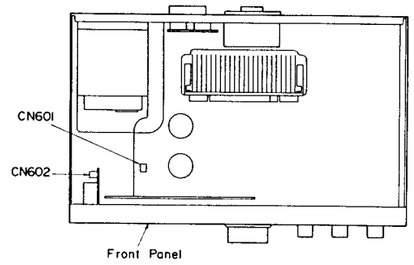
■ **Volume/FL P.C.B.**
1. Pull out the 1 knob (❶).
2. Remove the 1 nut (❷).
3. Remove the 5 screws (❸~❼).



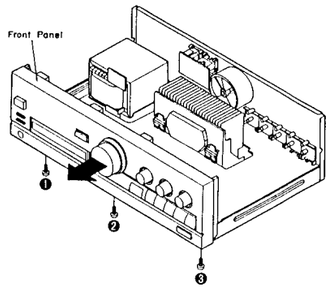
■ **Operation P.C.B.**
1. Pull out the 3 knobs (❽~❿).
2. Remove the 10 screws (⓫~⓴).



Ref. No. 2	Removal of the Front Panel
Procedure 1→2	

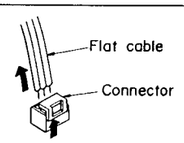


1. Remove the 2 flat cables (CN601, CN602).
2. Remove the 3 screws (❶~❸).
3. Remove the front panel in the direction of the arrow.

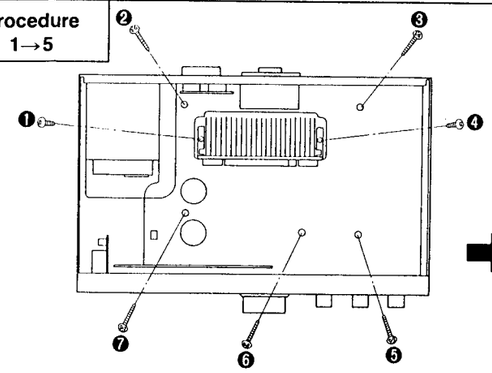


How to remove the flat cable

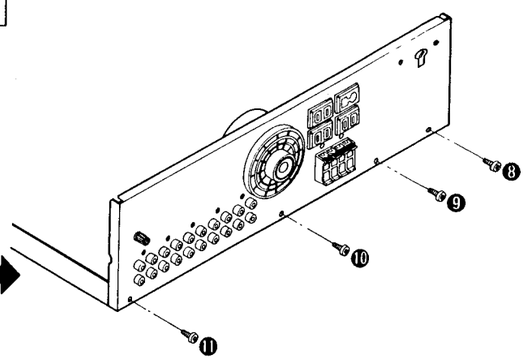
1. Lift the connector.
2. Pull out the flat cable.



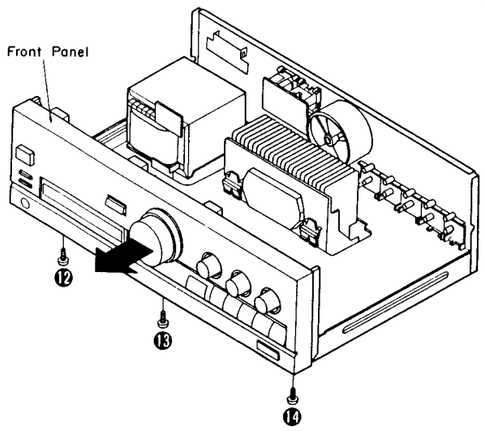
Ref. No. 5	Check of the main P.C.B.
Procedure 1→5	



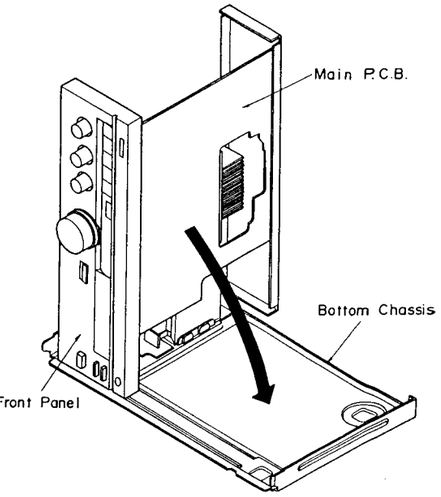
1. Remove the 7 screws (❶~❼).



2. Remove the 4 screws (❽~⓫).

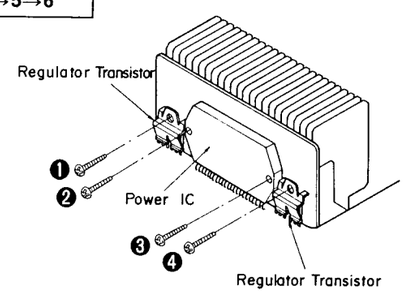


3. Remove the 3 screws (⓬~⓮).
4. Remove the front panel in the direction of the arrow.



5. Remove the bottom chassis in the direction of the arrow.
6. Reinstall the front panel to the main P.C.B.

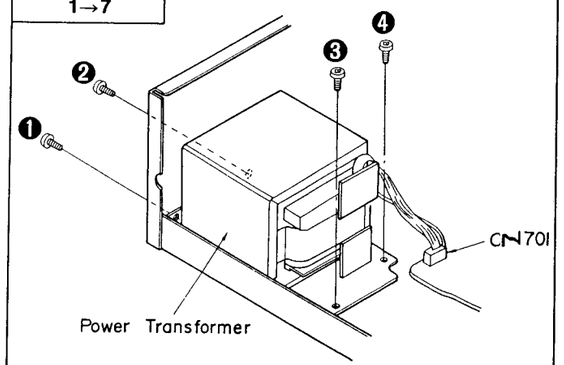
Ref. No. 6	Removal of the Power IC and Regulator Transistor
Procedure 1→5→6	



1. Unsolder the power IC or regulator transistor.
2. Remove the 4 screws (❶~❹).

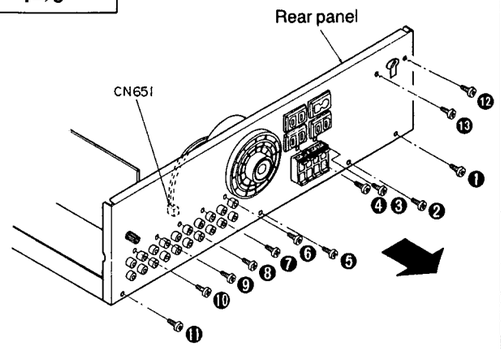
•**When mounting the power IC or regulator transistor.**
Apply silicone compound (SZZOL15) to the rear side of power IC or regulator transistor.

Ref. No. 7	Removal of the Power Transformer
Procedure 1→7	



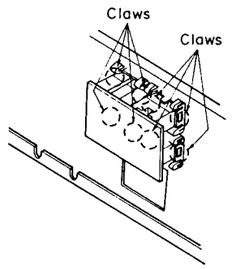
1. Remove the flat cable (CN701).
2. Remove the 4 screws (❶~❹).

Ref. No. 8	Removal of the Rear Panel
Procedure 1→8	



1. Remove the connector (CN651).
2. Remove the 13 screws (❶~⓭).
3. Remove the rear panel in the direction of the arrow.

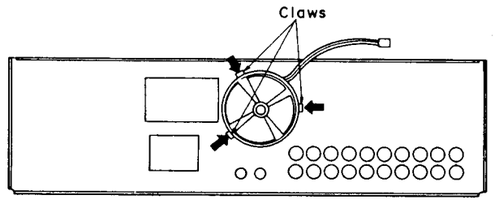
Ref. No. 9	Removal of the AC Outlet/AC Inlet P.C.B.
Procedure 1→8→9	



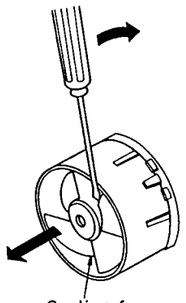
●Release the 8 claws.

Ref. No. 10	Removal of the Fan Motor
Procedure 1→8→10	

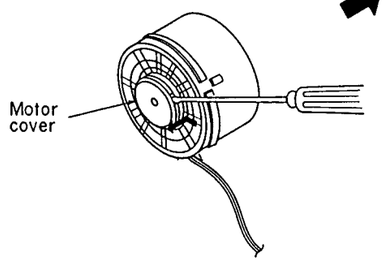
1. Release the 3 claws. (See Fig. 1)
2. Insert a screwdriver at the root of the cooling fan. Force it out of the motor shaft. (See Fig. 2)
3. Remove the motor cover by used ⊖ screwdriver. (See Fig. 3)
4. Remove the motor from the fan casing. (See Fig. 4)
5. When mounting the motor fan, align the fan casing's projection with the hole of the fan motor. (See Fig. 5)



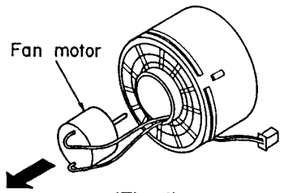
(Fig. 1)



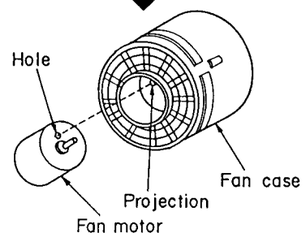
Cooling fan
(Fig. 2)



(Fig. 3)



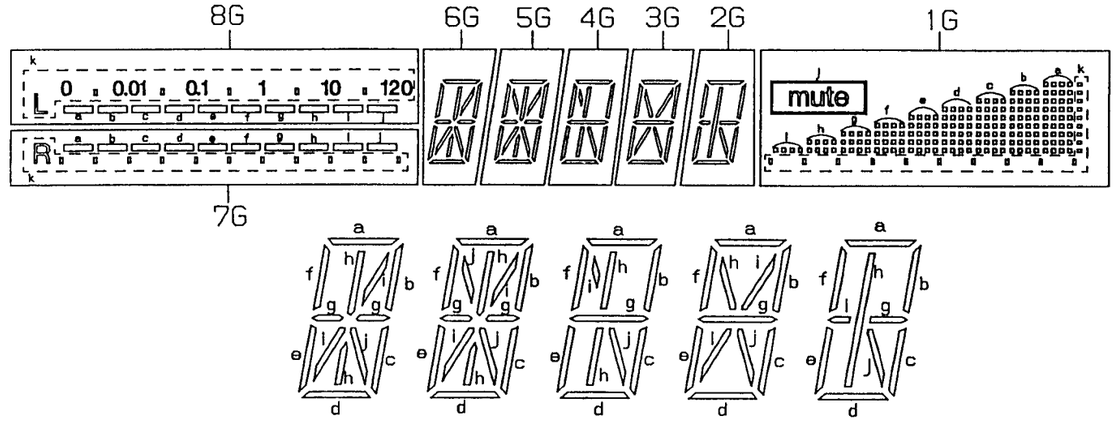
(Fig. 4)



(Fig. 5)

■ DESCRIPTION OF FL PANEL [FL901 (RSL0044-F)]

●GRID ASSIGNMENT



●PIN CONNECTION

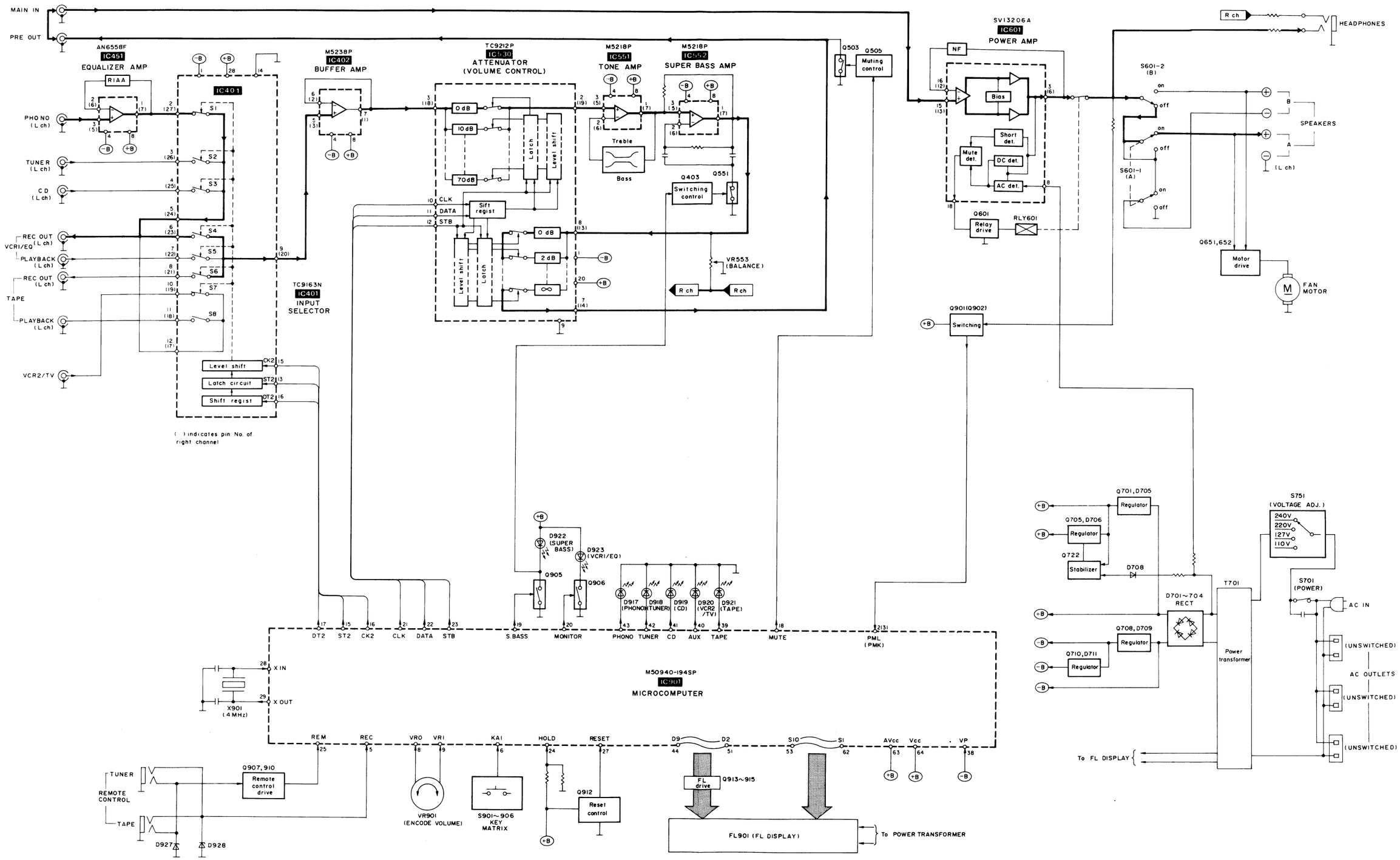
PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
CONNECTION	F 1	F 1	N P	N P	8 G	N P	7 G	N P	6 G	N P	5 G	N P	4 G	N P	3 G	N P	2 G	N P	1 G	N P	N P	N P	k	N P	j	N P	i	N P	h

PIN NO.	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
CONNECTION	N P	g	N P	f	N P	e	N P	d	N P	c	N P	b	N P	a	N P	N P	N P	F 2	F 2

●ANODE CONNECTION

	8G	7G	6G	5G	4G	3G	2G	1G
a	▬	▬	a	a	a	a	a	▪▪▪
b	▬	▬	b	b	b	b	b	▪▪▪
c	▬	▬	c	c	c	c	c	▪▪▪
d	▬	▬	d	d	d	d	d	▪▪▪
e	▬	▬	e	e	e	e	e	▪▪▪
f	▬	▬	f	f	f	f	f	▪▪▪
g	▬	▬	g	g	g	g	g	▪▪▪
h	▬	▬	h	h	h	h	h	▪▪▪
i	▬	▬	i	i	i	i	i	▪▪▪
j	▬	▬	j	j	j	j	j	mute
k	L 0~120	R ▮▮▮▮▮▮▮	-	-	-	-	-	▮▮▮▮▮▮▮

■ BLOCK DIAGRAM



■ SCHEMATIC DIAGRAM

(Parts list on pages 24~27.)

(This schematic diagram may be modified at any time with the development of new technology.)

Notes:

- **•S601-1, 601-2** : Speaker selector switches. **[S601-1: A, S601-2: B]**
- **•S701** : Power switch in **"on"** position.
- **•S751** : Voltage selector switch in **"110 V"** position. **(110 V/127 V/220 V/240 V)** For (GC), (PX) areas
- **•S901~906** : Input selector switches. **[S901: Phono, S902: Tuner S903: CD, S904: Tape S905: VCR 2/TV, S906: VCR 1]**
- **•S907** : Super bass switch.

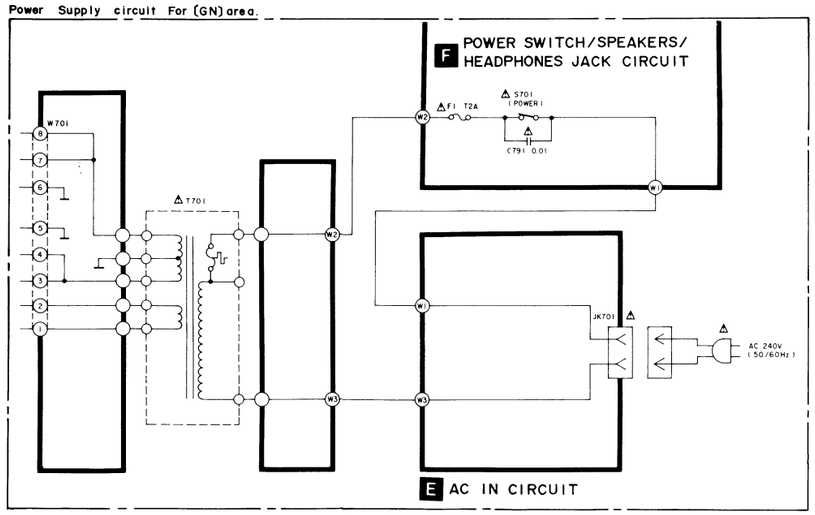
CD • Phono signal line ⇨ Recording signal
Positive voltage line ---- Negative voltage line

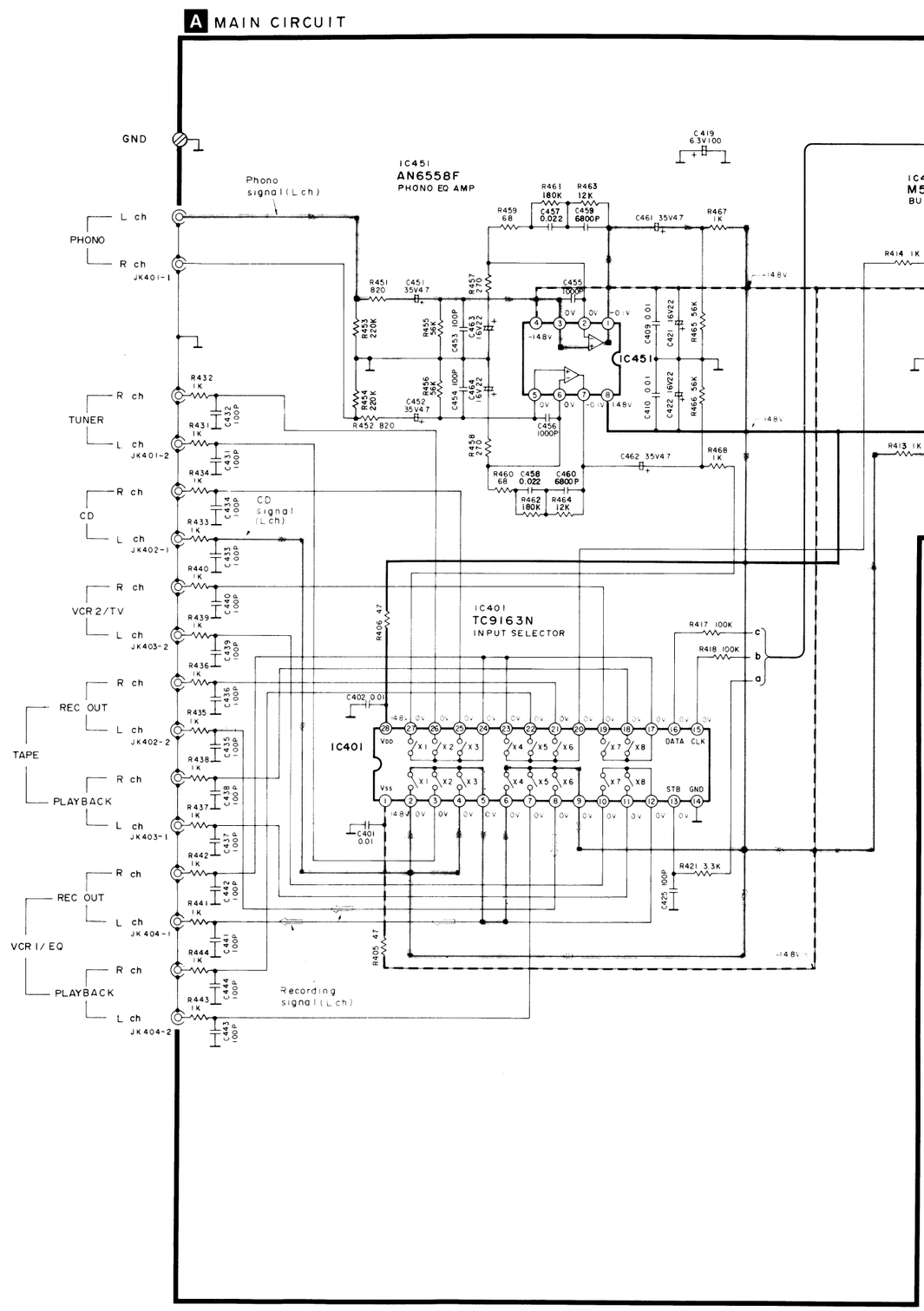
- •Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.
- •Important safety notice:
  Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

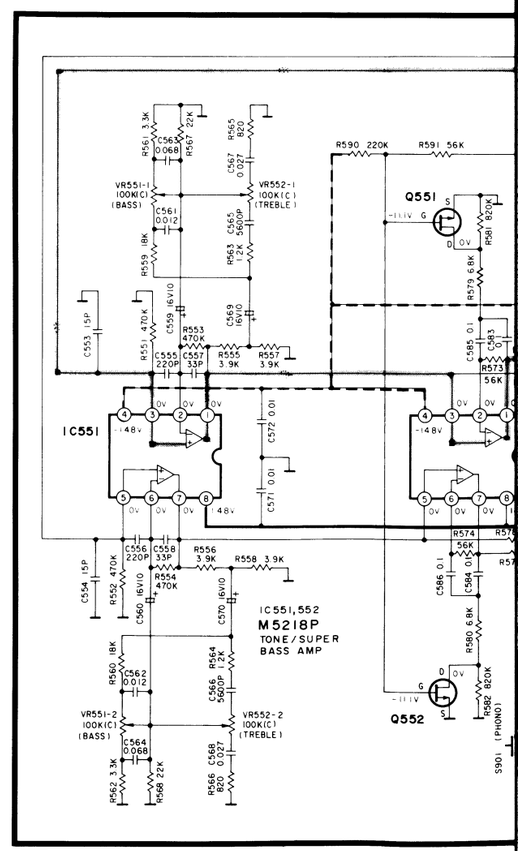
•Caution!

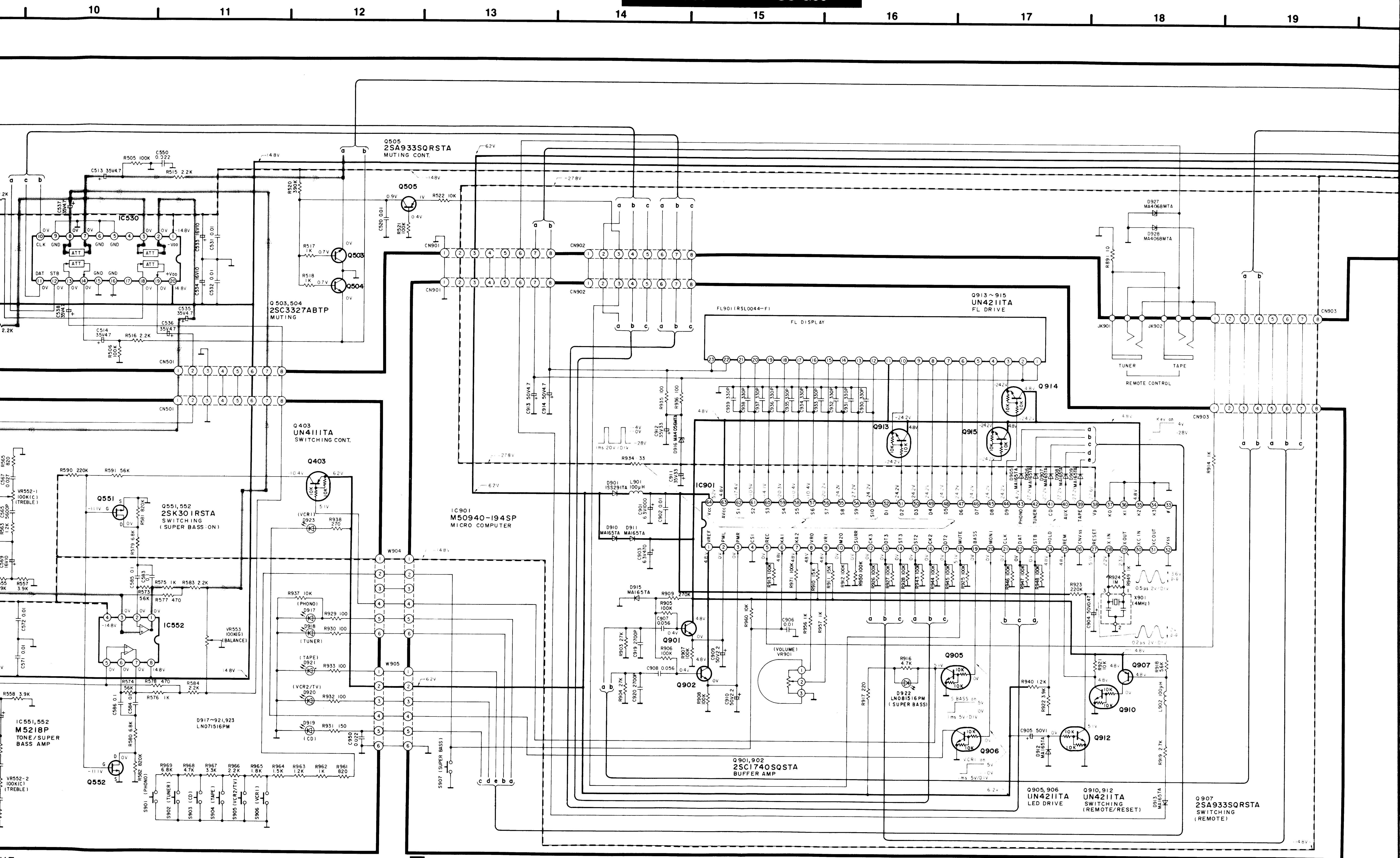
IC and LSI are sensitive to static electricity.
Secondary trouble can be prevented by taking care furing repair.
•Cover the parts boxes made of plastics with aluminum foil.
•Ground the soldering iron.
•Put a conductive mat on the word table.
•Do not touch the legs of IC or LSI with the fingers directly.

Power Supply circuit For (GN) area.

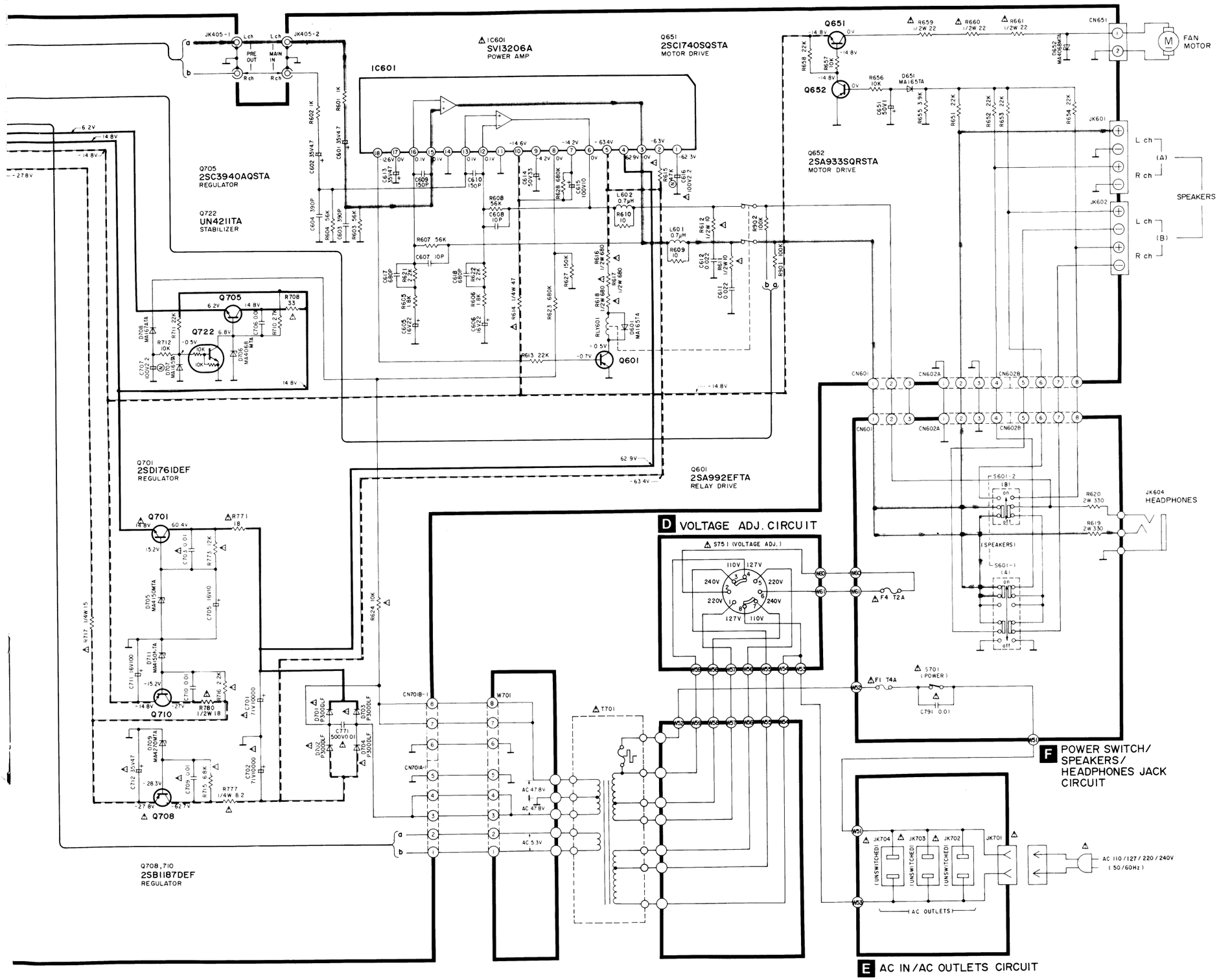




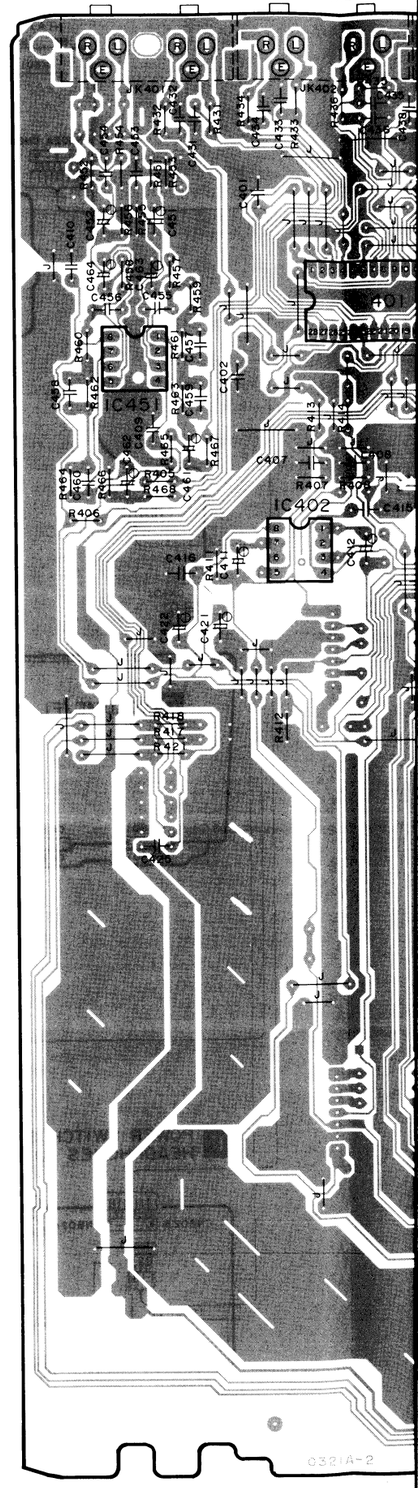



10
11
12
13
14
15
16
17
18
19
IC530
CLK GND GND GND
DAT STB GND GND
ATT
-VDD
+VDD
R505 100K
C550 0.022
C513 35V4.7
R515 2.2K
C537 35V4.7
C533 16V10
C531 0.01
C534 16V10
C532 0.01
C538 35V4.7
C535 35V4.7
C536 35V4.7
C514 35V4.7
R516 2.2K
R506 100K
CN501
R520 390K
R517 1K
R518 1K
Q503
Q504
Q503,504
2SC3327ABTP
MUTING
Q505
2SA933SQRSTA
MUTING CONT.
R522 10K
C520 0.01
R521 100K
CN901
CN902
FL901(RSL0044-F)
FL DISPLAY
Q913~915
UN4211TA
FL DRIVE
Q913
Q914
Q915
C939 330P
C938 330P
C937 330P
C936 330P
C935 330P
C934 330P
C933 330P
C932 330P
C931 330P
C930 330P
C913 50V4.7
C914 50V4.7
R935 100
R936 100
C912 35V33
D916 MA4056MTA
1ms 20V/DIV
R934 33
C911 35V33
D901 1SS291TA
L901 100μH
C901 6.3V1000
C902 0.01
D910 MA165TA
D911 MA165TA
C903 6.3V470
IC901
M50940-194SP
MICRO COMPUTER
Vcc
AVcc
VREF
PML
PMR
CSI
REC
KA1
KA2
VR0
VR1
M20
SURR
CK3
DT3
ST3
ST2
CK2
DT2
MUTE
BASS
MONI
CLK
DAT
STB
HOLD
REM
CNVss
RESET
X IN
X OUT
XC IN
XCOUT
Vss
PHONO
TUNER
CD
AUX
TAPE
Vp
K0
K1
K2
K3
D905 MA165TA
D906 MA165TA
D907 MA165TA
D908 MA165TA
D909 MA165TA
R924 1M
R949 1K
X901 (4MHz)
0.5μs 2V/DIV
0.2μs 2V/DIV
R923 220K
C904 50V0.47
D927 MA4068MTA
D928 MA4068MTA
R891 10
JK901
JK902
TUNER
TAPE
REMOTE CONTROL
CN903
Key on
R914 1K
D915 MA165TA
R909 270K
R905 100K
C907 0.056
Q901
R903 27K
C919 2700P
R906 100K
R907 100K
C909 50V2.2
C908 0.056
Q902
R904 27K
C920 2700P
R908 100K
C910 50V2.2
Q901,902
2SC1740SQSTA
BUFFER AMP
R960 10K
C906 0.01
R956 1K
R957 1K
(VOLUME)
VR901
R917 220
R916 4.7K
D922
LN081516PM
(SUPER BASS)
Q905
Q906
S.BASS on
VCR1 on
1ms 5V/DIV
R940 1.2K
R922 3.9K
C905 50V1
D912 MA165TA
Q912
Q910
Q907
R921 10K
R918 5.6K
L902 100μH
R919 2.7K
D913 MA165TA
Q905,906
UN4211TA
LED DRIVE
Q910,912
UN4211TA
SWITCHING
(REMOTE/RESET)
Q907
2SA933SQRSTA
SWITCHING
(REMOTE)
Q403
UN4111TA
SWITCHING CONT.
R938 270
D923
R590 220K
R591 56K
Q551
Q551,552
2SK301RSTA
SWITCHING
(SUPER BASS:ON)
R581 820K
R579 6.8K
C585 0.1
C583 0.1
R575 1K
R583 2.2K
R573 56K
R577 470
IC552
VR553
100K(G)
(BALANCE)
R574 56K
R578 470
R584 2.2K
R576 1K
C586 0.1
C584 0.1
R580 6.8K
R582 820K
Q552
IC551,552
M5218P
TONE/SUPER
BASS AMP
VR552-1
100K(C)
(TREBLE)
VR552-2
100K(C)
(TREBLE)
R565 820
C567 0.027
C565 5600P
R563 1.2K
C569 16V10
R557 3.9K
C572 0.01
C571 0.01
R558 3.9K
W904
W905
R937 10K
(PHONO)
D917
R929 100
D918
R930 100
(TUNER)
(TAPE)
D921
R933 100
(VCR2/TV)
D920
R932 100
D919
R931 150
(CD)
C950 0.022
D917~921,923
LN071516PM
R969 6.8K
R968 4.7K
R967 3.3K
R966 2.2K
R965 1.8K
R964 1.5K
R963 1.2K
R962 1K
R961 820
S901 (PHONO)
S902 (TUNER)
S903 (CD)
S904 (TAPE)
S905 (VCR2/TV)
S906 (VCR1)
S907 (SUPER BASS)

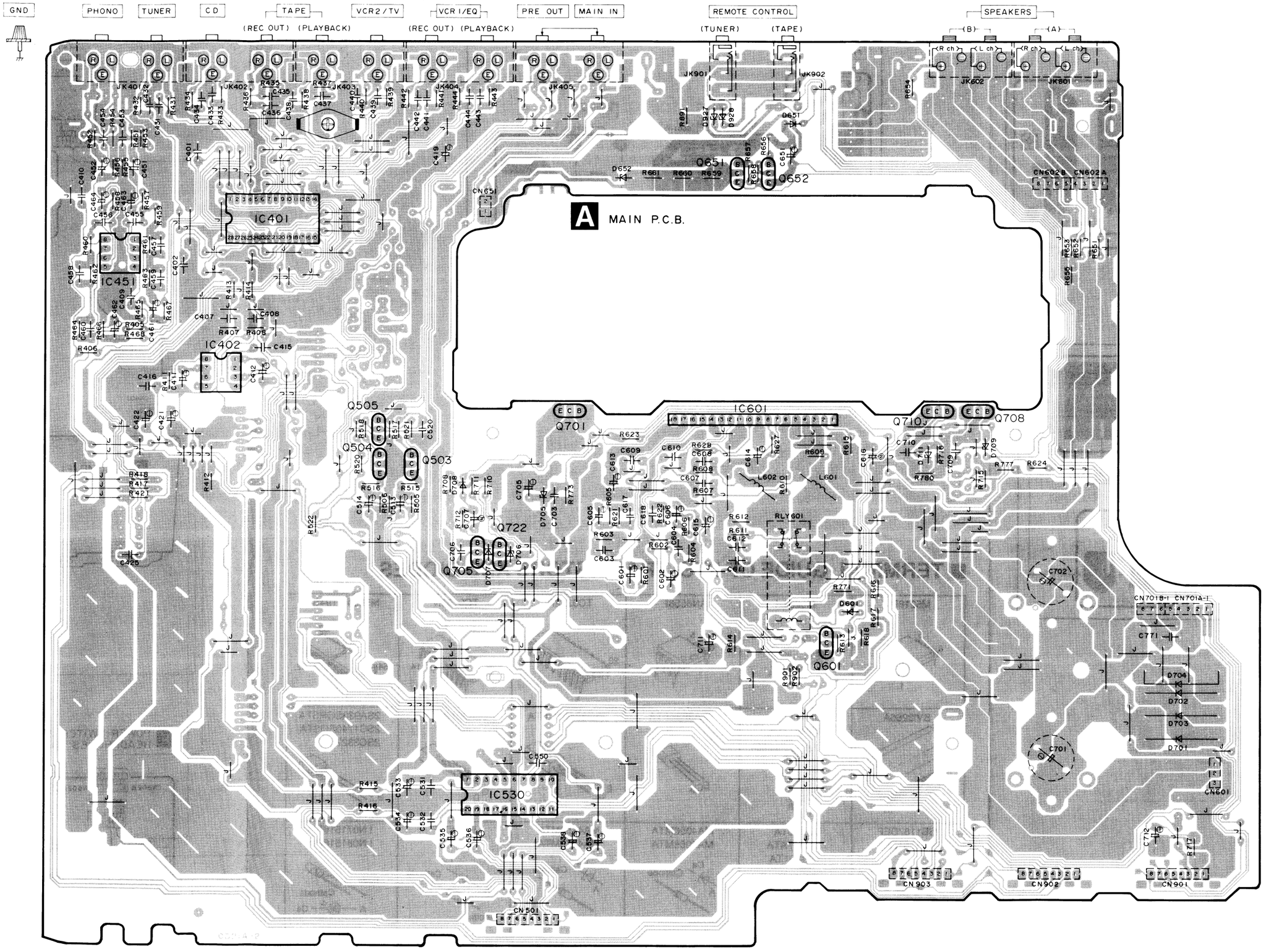
C VOLUME/FL DRIVE CIRCUIT

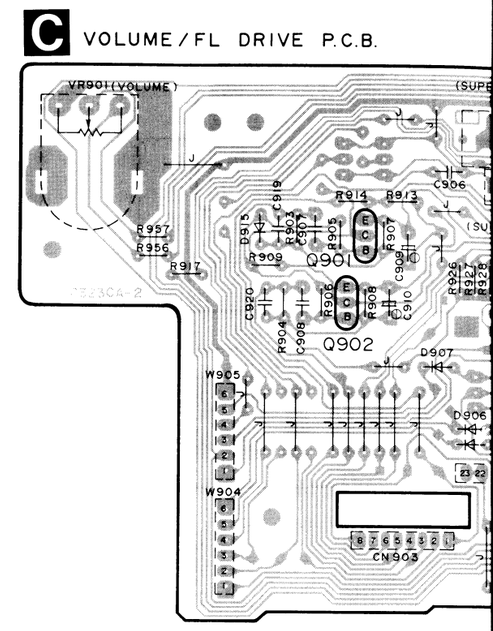


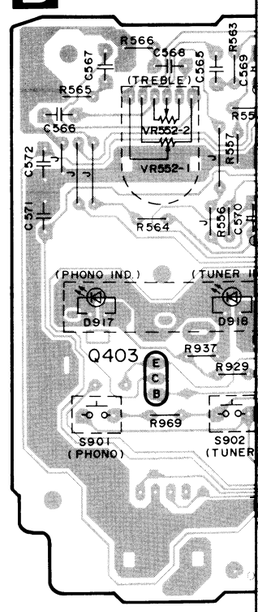
■ PRINTED CIRCUIT BOARDS (P



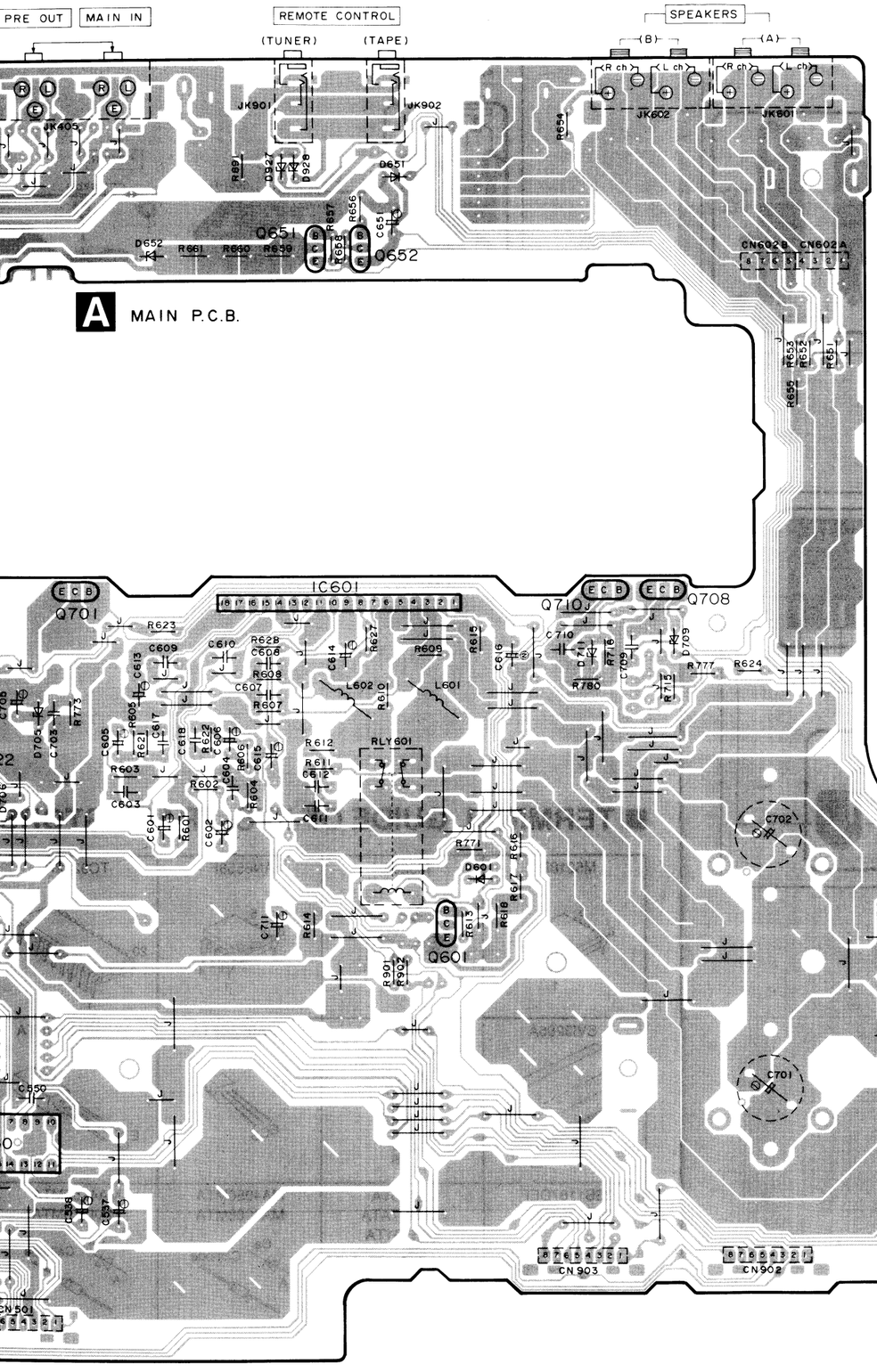
PRINTED CIRCUIT BOARDS (Parts list on pages 24~27.)





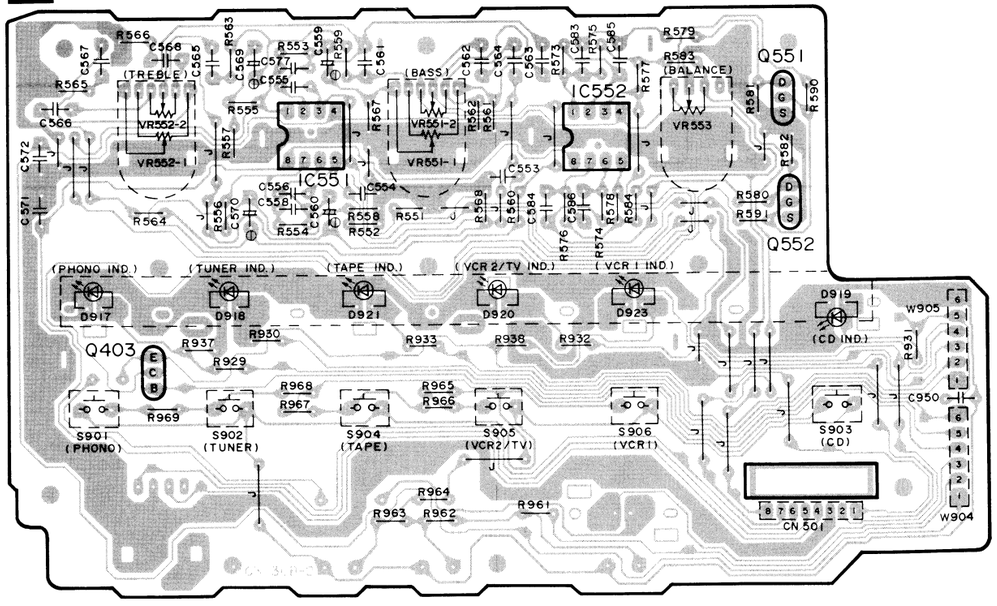


5 6 7 8 9 10 11 12 13 14



A MAIN P.C.B.

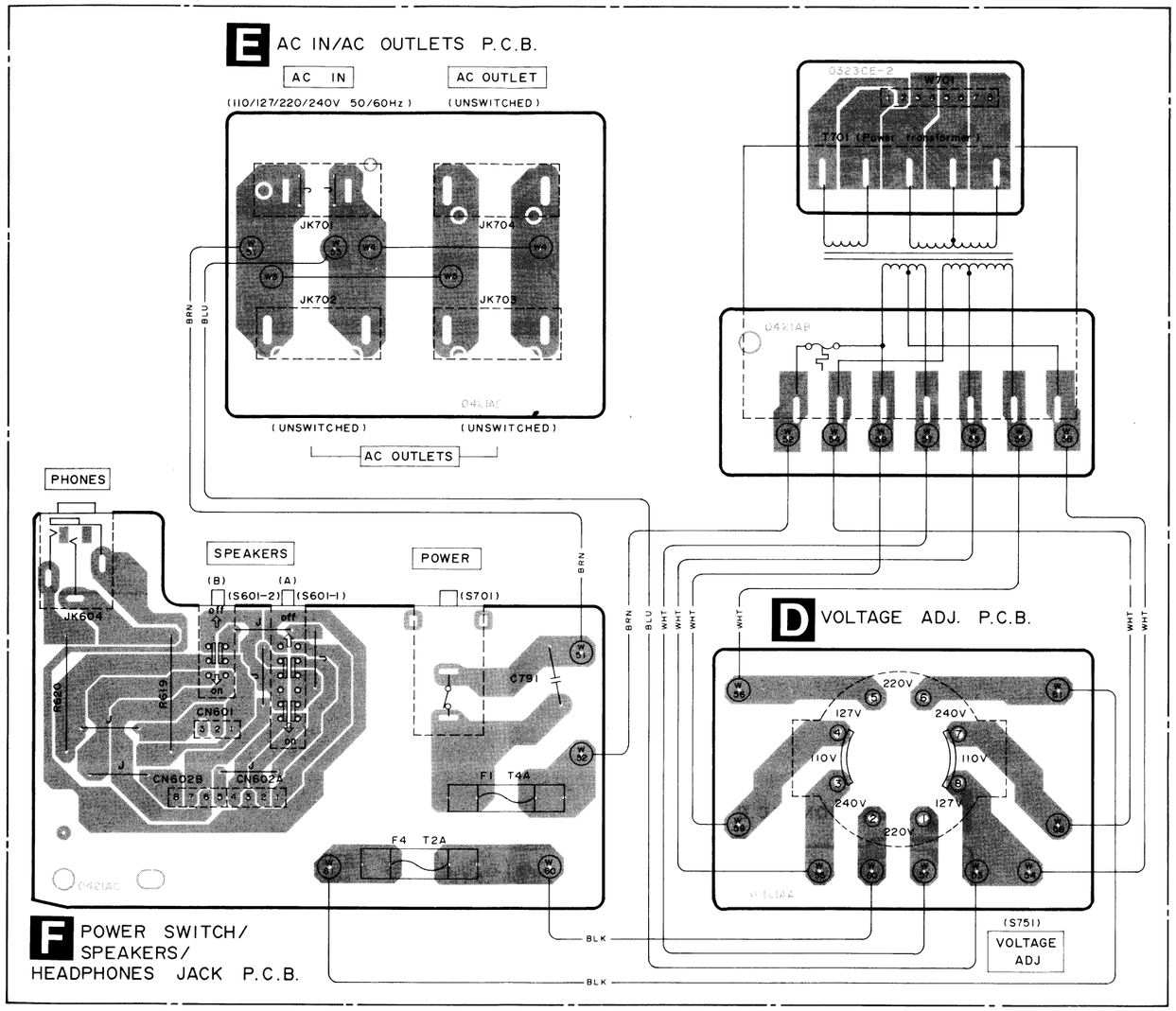
C VOLUME / FL DRIVE P.C.B.



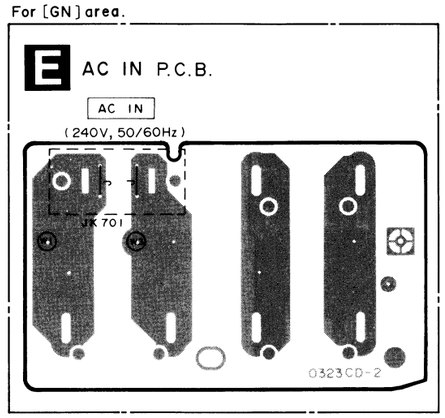
B OPERATION P.C.B.

15 16 17 18 19 20 21 22 23 24

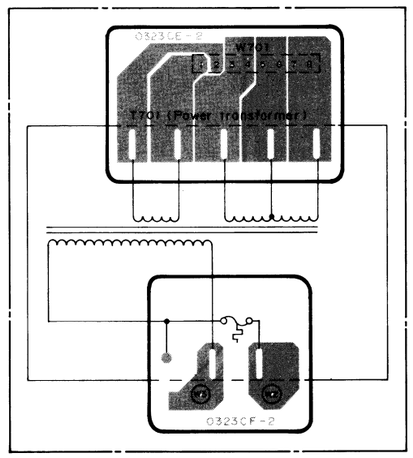
Power Supply For [GC, PX] areas.



For [GN] area.



For (GN) area.



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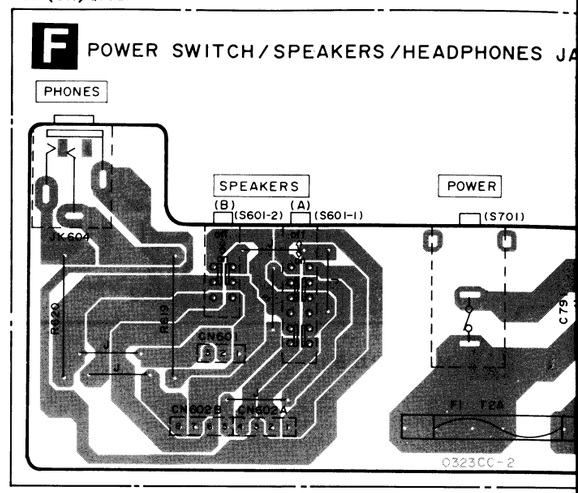
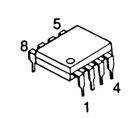
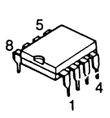
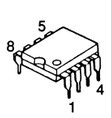
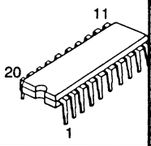
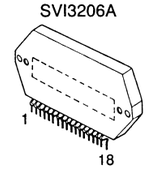
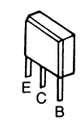
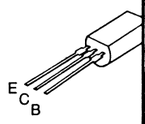
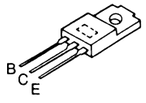
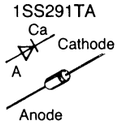
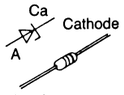
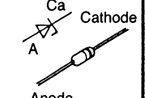
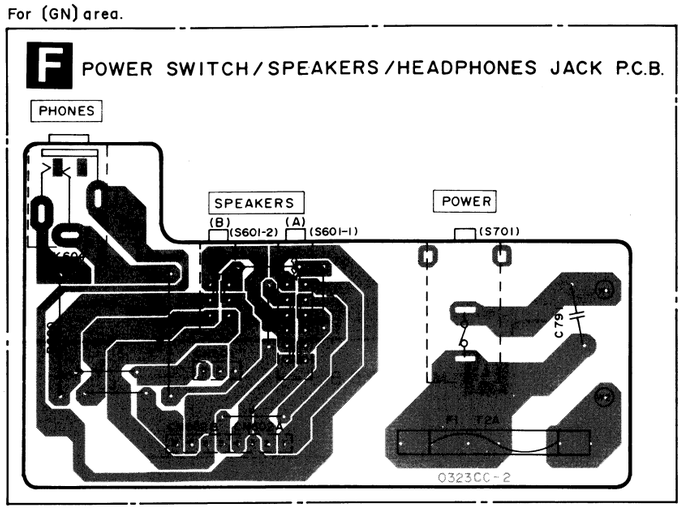


■ TERMINAL GUIDE OF IC'S, TRANSISTOR

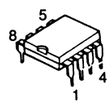
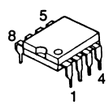
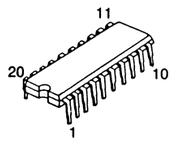
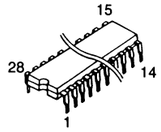
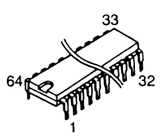
M5218P 	M5238-1 	AN6558F 	TC9212P 
SVI3206A 	UN4111TA UN4211TA 	2SA992EFTA	2SC3940AQSTA 
2SB1187DEF 2SD1761DEF 	MA165TA MA167ATA 1SS291TA 	MA4056MTA MA4068MTA 	MA4150MTA MA4270MTA 

23 24 25 26

For (GN) area.



MINAL GUIDE OF IC'S, TRANSISTORS AND DIODES

	M5238-1	AN6558F	TC9212P	TC9163N	M50940-194SP
					
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	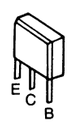		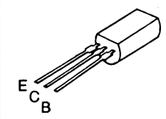	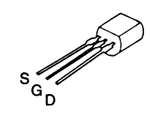	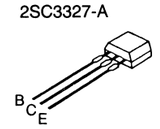
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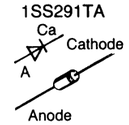
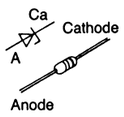
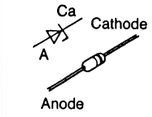
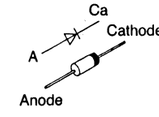
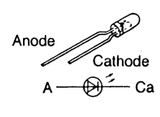
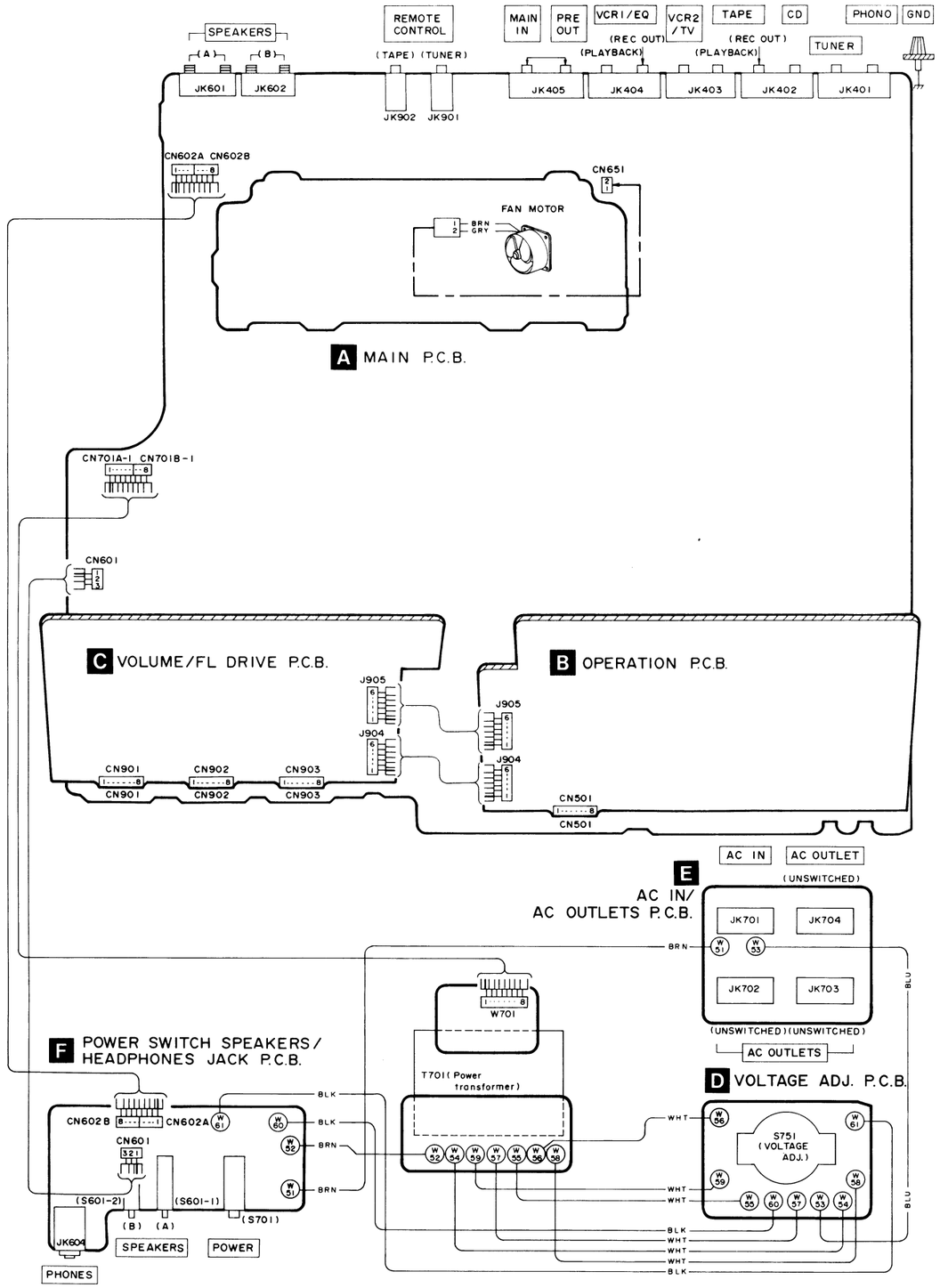
					

■ WIRING CONNECTION DIAGRAM

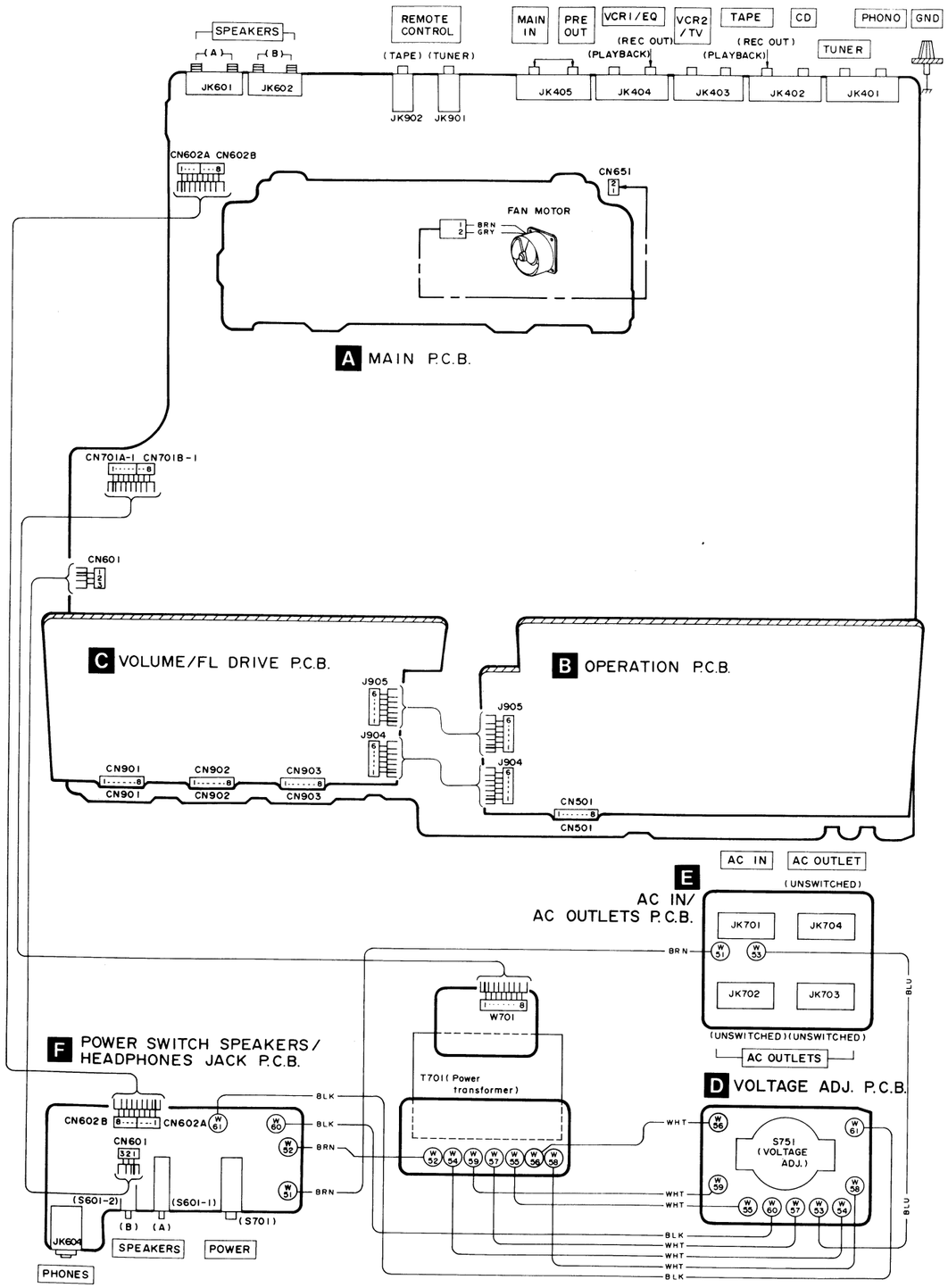


■ REPLACEMEN

Notes : * Important safety n
Components identi
components use onl
* The parenthesized
Parts without thes

Ref. No.	Part No.	Part Nam
		INTEGRATED
IC401	TC9163N	IC, INPUT SE
IC402	M5238P-1	IC, BUFFER A
IC451	AN6558F	IC, PHONO EQ
IC530	TC9212P	IC, ATTENUAT
IC551, 552	M5218P	IC, TONE/SUP
IC601	SVI3206A	IC, POWER AM
IC901	M50940-194SP	IC, MICRO CO
		TRANSISTOR
Q403	UN4111	TRANSISTOR
Q503, 504	2SC3327-A	TRANSISTOR
Q505	2SA933SQR	TRANSISTOR
Q551, 552	2SK301RSTA	TRANSISTOR
Q601	2SA992EFTA	TRANSISTOR
Q651	2SC1740SQ	TRANSISTOR
Q652	2SA933SQR	TRANSISTOR
Q701	2SD1761DEF	TRANSISTOR
Q705	2SC3940AQSTA	TRANSISTOR
Q708	2SB1187DEF	TRANSISTOR
Q710	2SB1187DEF	TRANSISTOR
Q722	UN4211	TRANSISTOR
Q901, 902	2SC1740SQ	TRANSISTOR
Q905, 906	UN4211	TRANSISTOR
Q907	2SA933SQR	TRANSISTOR
Q910	UN4211	TRANSISTOR
Q912-915	UN4211	TRANSISTOR
		DIODE(S)
D601	MA165	DIODE
D651	MA165	DIODE
D652	MA4068M	DIODE
D701-704	P300DLF	DIODE
D705	MA4150M	DIODE
D706	MA4068M	DIODE
D707	MA165	DIODE
D708	MA167	DIODE
D709	MA4270	DIODE
D711	MA4150M	DIODE
D901	1SS291TA	DIODE
D905-913	MA165	DIODE
D915	MA165	DIODE
D916	MA4056MTA	DIODE

■ WIRING CONNECTION DIAGRAM



■ REPLACEMENT PARTS LIST

Notes : * Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.
* The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)
Parts without these indications can be used for all areas.

Ref. No.	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUIT(S)	
IC401	TC9163N	IC, INPUT SELECTOR	
IC402	M5238P-1	IC, BUFFER AMP.	
IC451	AN6558F	IC, PHONO EQ AMP.	
IC530	TC9212P	IC, ATTENUATOR(VOLUME)	
IC551, 552	M5218P	IC, TONE/SUPER BASS AMP.	
IC601	SVI3206A	IC, POWER AMP.	⚠
IC901	M50940-194SP	IC, MICRO COMPOUTER	
		TRANSISTOR(S)	
Q403	UN4111	TRANSISTOR	
Q503, 504	2SC3327-A	TRANSISTOR	
Q505	2SA933SQR	TRANSISTOR	
Q551, 552	2SK301RSTA	TRANSISTOR	
Q601	2SA992EFTA	TRANSISTOR	
Q651	2SC1740SQ	TRANSISTOR	
Q652	2SA933SQR	TRANSISTOR	
Q701	2SD1761DEF	TRANSISTOR	⚠
Q705	2SC3940AQSTA	TRANSISTOR	
Q708	2SB1187DEF	TRANSISTOR	⚠
Q710	2SB1187DEF	TRANSISTOR	
Q722	UN4211	TRANSISTOR	
Q901, 902	2SC1740SQ	TRANSISTOR	
Q905, 906	UN4211	TRANSISTOR	
Q907	2SA933SQR	TRANSISTOR	
Q910	UN4211	TRANSISTOR	
Q912-915	UN4211	TRANSISTOR	
		DIODE(S)	
D601	MA165	DIODE	
D651	MA165	DIODE	
D652	MA4068M	DIODE	
D701-704	P300DLF	DIODE	⚠
D705	MA4150M	DIODE	
D706	MA4068M	DIODE	
D707	MA165	DIODE	
D708	MA167	DIODE	
D709	MA4270	DIODE	
D711	MA4150M	DIODE	
D901	1SS291TA	DIODE	
D905-913	MA165	DIODE	
D915	MA165	DIODE	
D916	MA4056MTA	DIODE	

Ref. No.	Part No.	Part Name & Description	Remarks
D917-921 D923	LN071516PM	LED BLOCK	
D922	LN081516PM	LED	
D927, 928	MA4068M	DIODE	
		VARIABLE RESISTOR(S)	
VR551, 552	EVJYA1F02C15	BASS/TREBLE CONTROL	
VR553	EVJ02QF02G15	BALANCE CONTROL	
VR901	EVQWQAF2524B	MAIN VOL. CONTROL	
		COIL(S)	
L601, 602	SLQY07G-40	COIL	
L901, 902	RLQZP101KT-Y	COIL	
		TRANSFORMER(S)	
T701	RTP1P5E002	POWER TRANSFORMER	⚠(GC, PX)
T701	RTP1P5B002	POWER TRANSFORMER	⚠(GN)
		OSCILLATOR(S)	
X901	EF0GC4004A4	OSCILLATOR	
		DISPLAY TUBE	
FL901	RSL0044-F	DISPLAY TUBE	
		FUSE(S)	
F1	XBA2C40TB0	FUSE 250V 4A	⚠(GC, PX)
F1	XBA2C20TB0	FUSE 250V 2A	⚠(GN)
F4	XBA2C20TB0	FUSE 250V 2A	⚠(GC, PX)
		SWITCH(ES)	
S601-1, -2	SSH2128	SW, SP SELECTOR A/B	
S701	ESB8249V	SW, POWER	⚠
S751	ESE37263	SW, VOLTAGE SELECTOR	⚠(GC, PX)
S901-907	EVQ21405R	SW, INPUT SELECTOR/S. BASS	
		JACK(S)	
JK401-405	SJF3069N	TERMINAL BOARD	
JK601, 602	RJR0054M	SP. TERMINAL	
JK604	QJA0455ZC	HP. JACK	

Ref. No.	Part No.	Part Name & Description	Remarks
JK701	SJS9231-1B	AC. INLET	⚠(GC, PX)
JK701	SJS9234B	AC INLET	⚠(GN)
JK702-704	SJS9233B	AC OUTLET	⚠(GC, PX)
JK901	RJJ33TR01	REMOTE(TUNER)	
JK902	RJJ33TR01	REMOTE(TAPE)	
CN501	RJT003K008M1	CONNECTOR(8P)	
CN501	RJU003K008M1	SOCKET(8P) MAIN P. C. B.	
CN601	RJS1A1703	CONNECTOR (3P)	
CN601	RJS1A1703	CONNECTOR (3P)	
CN651	SJT3213	CONNECTOR(2P)	
CN901	RJT003K008M1	CONNECTOR(8P)	
CN901	RJU003K008M1	SOCKET(8P) MAIN P. C. B.	
CN902	RJT003K008M1	CONNECTOR(8P)	
CN902	RJU003K008M1	SOCKET(8P) MAIN P. C. B.	
CN903	RJT003K008M1	CONNECTOR(8P)	
CN903	RJU003K008M1	SOCKET(8P) MAIN P. C. B.	
CN602A	RJS1A1704	SOCKET(4P)	
CN602A	RJS1A1704	SOCKET(4P)	
CN701A	RJS1A1705	CONNECTOR(5P)	
CN602B	RJS1A1704	SOCKET(4P)	
CN602B	RJS1A1704	SOCKET(4P)	
CN701B	RJS1A1703	CONNECTOR (3P)	
		RELAY	
RLY601	SSY134	RELAY	

Notes : * Capacity valuse are in microfarads (uF) unless specified otherwise, P=Pico-farads(pF) F=Farads(F)
* Resistance values are in ohms, unless specified otherwise, 1K=1,000(OHM) , 1M=1,000k(OHM)

Ref. No.	Part No.	Values & Remarks
		RESISTORS
R405, 406	ERDS2TJ470	1/4W 47
R407, 408	ERDS2TJ473	1/4W 47K
R411, 412	ERDS2TJ104	1/4W 100K
R413, 414	ERDS2TJ102	1/4W 1K
R415, 416	ERDS2TJ222	1/4W 2.2K
R417, 418	ERDS2TJ104	1/4W 100K
R421	ERDS2TJ332	1/4W 3.3K
R431-444	ERDS2TJ102	1/4W 1K
R451, 452	ERDS2TJ821	1/4W 820
R453, 454	ERDS2TJ224T	1/4W 220K
R455, 456	ERDS2TJ563	1/4W 56K
R457, 458	ERDS2TJ271	1/4W 270
R459, 460	ERDS2TJ680T	1/4W 68
R461, 462	ERDS2TJ184T	1/4W 180K
R463, 464	ERDS2TJ123	1/4W 12K
R465, 466	ERDS2TJ563	1/4W 56K
R467, 468	ERDS2TJ102	1/4W 1K
R505, 506	ERDS2TJ104	1/4W 100K
R515, 516	ERDS2TJ222	1/4W 2.2K
R517, 518	ERDS2TJ102	1/4W 1K
R520	ERDS2TJ394	1/4W 390K
R521	ERDS2TJ104	1/4W 100K
R522	ERDS2TJ103	1/4W 10K
R551-554	ERDS2TJ474	1/4W 470K
R555-558	ERDS2TJ392T	1/4W 3.9K
R559, 560	ERDS2TJ183T	1/4W 18K
R561, 562	ERDS2TJ332	1/4W 3.3K
R563, 564	ERDS2TJ122	1/4W 1.2K
R565, 566	ERDS2TJ821	1/4W 820
R567, 568	ERDS2TJ223	1/4W 22K
R573, 574	ERDS2TJ563	1/4W 56K
R575, 576	ERDS2TJ102	1/4W 1K
R577, 578	ERDS2TJ471	1/4W 470
R579, 580	ERDS2TJ682T	1/4W 6.8K
R581, 582	ERDS2TJ824	1/4W 820K
R583, 584	ERDS2TJ222	1/4W 2.2K
R590	ERDS2TJ224T	1/4W 220K
R591	ERDS2TJ563	1/4W 56K
R601, 602	ERDS2TJ102	1/4W 1K
R603, 604	ERDS2TJ563	1/4W 56K
R605, 606	ERDS2TJ182	1/4W 1.8K
R607, 608	ERDS2TJ563	1/4W 56K
R609, 610	ERDS2TJ100	1/4W 10
R611, 612	ERDS1FVJ100T	1/2W 10 ⚠
R613	ERDS2TJ223	1/4W 22K
R614	ERD25FJ470	1/4W 47 ⚠

Ref. No.	Part No.	Values & Remarks
R615	ERDS2TJ473	1/4W 47K ⚠
R616-618	ERDS1FVJ681T	1/2W 680 ⚠
R619, 620	ERG2ANJP331S	2W 330
R621, 622	ERDS2TJ222	1/4W 2.2K
R623	ERDS2TJ684	1/4W 680K
R624	ERDS2TJ103	1/4W 10K ⚠
R627	ERDS2TJ154	1/4W 150K
R628	ERDS2TJ684	1/4W 680K
R651-654	ERDS2TJ223	1/4W 22K
R655	ERDS2TJ392T	1/4W 3.9K
R656, 657	ERDS2TJ103	1/4W 10K
R658	ERDS2TJ223	1/4W 22K
R659-661	ERDS1FVJ220T	1/2W 22 ⚠
R708	ERDS1FJ330	1/2W 33 ⚠(GC, PX)
R708	ERD2FCVG330T	1/4W 33 ⚠(GN)
R710	ERDS2TJ272T	1/4W 2.7K
R711	ERDS2TJ223	1/4W 22K
R712	ERDS2TJ103	1/4W 10K
R715	ERDS2TJ682T	1/4W 6.8K ⚠
R716	ERDS2TJ222	1/4W 2.2K
R717	ERD25FVJ150T	1/4W 15 ⚠
R771	ERDS1FVJ180T	1/2W 18 ⚠(GC, PX)
R771	ERD2FCVG180T	1/4W 18 ⚠(GN)
R773	ERDS2TJ123	1/4W 12K ⚠
R777	ERD25FVJ8R2T	1/4W 8.2 ⚠
R780	ERDS1FVJ180T	1/2W 18 ⚠
R891	ERDS2TJ100	1/4W 10
R901, 902	ERDS2TJ104	1/4W 100K
R903, 904	ERDS2TJ273	1/4W 27K
R905-908	ERDS2TJ104	1/4W 100K
R909	ERDS2TJ274	1/4W 270K
R910, 911	ERDS2TJ153	1/4W 15K
R912, 913	ERDS2TJ104	1/4W 100K
R914	ERDS2TJ102	1/4W 1K
R916	ERDS2TJ472	1/4W 4.7K
R917	ERDS2TJ221	1/4W 220
R918	ERDS2TJ562	1/4W 5.6K
R919	ERDS2TJ272T	1/4W 2.7K
R921	ERDS2TJ103	1/4W 10K
R922	ERDS2TJ392T	1/4W 3.9K
R923	ERDS2TJ224T	1/4W 220K
R924	ERDS2TJ105T	1/4W 1M
R925-928	ERDS2TJ104	1/4W 100K
R929, 930	ERDS2TJ101	1/4W 100
R931	ERDS2TJ151	1/4W 150
R932, 933	ERDS2TJ101	1/4W 100
R934	ERDS2TJ330	1/4W 33
R935, 936	ERDS2TJ101	1/4W 100
R937	ERDS2TJ103	1/4W 10K

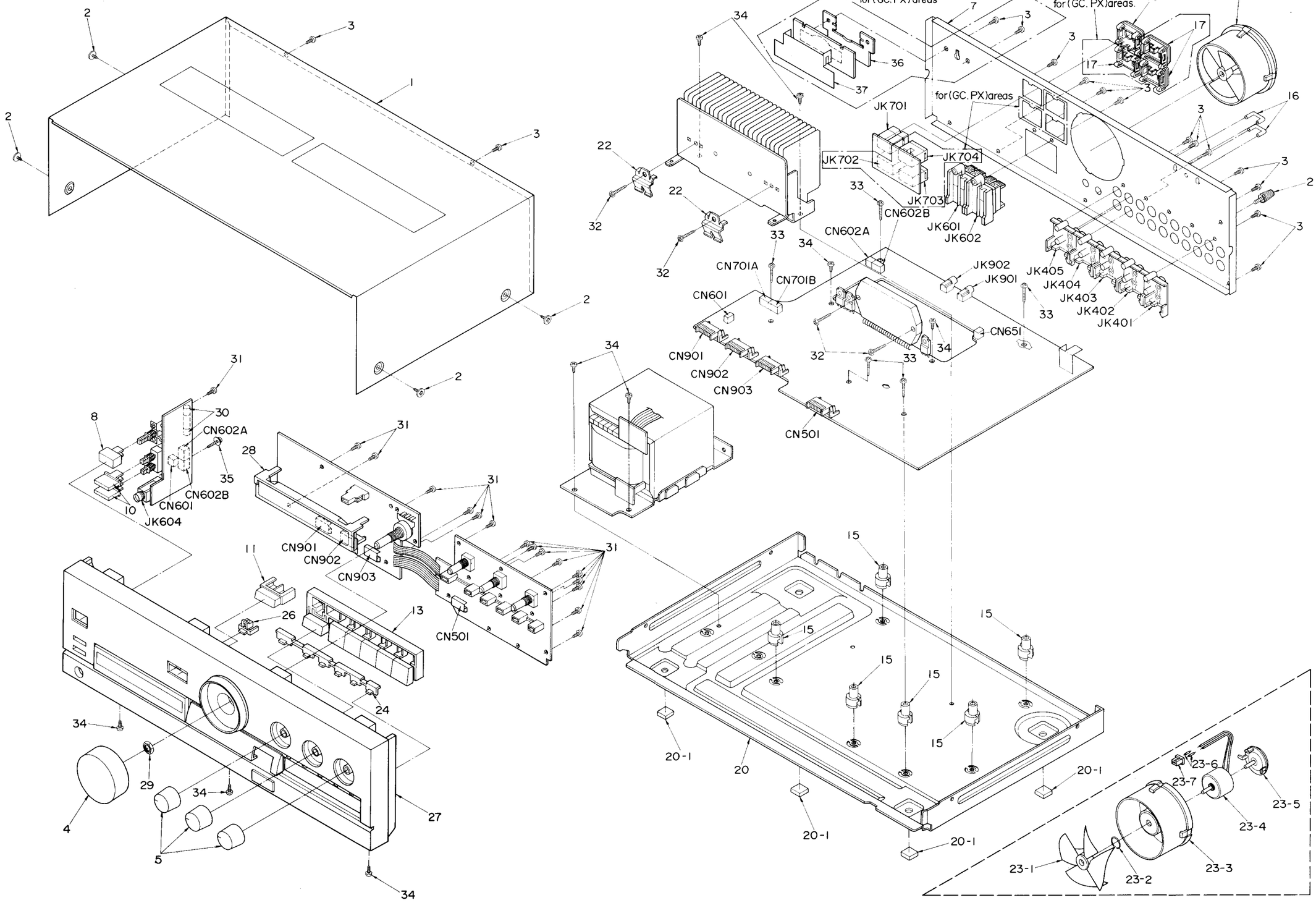
Ref. No.	Part No.	Values & Remarks
R938	ERDS2TJ271	1/4W 270
R940	ERDS2TJ122	1/4W 1.2K
R943-948	ERDS2TJ104	1/4W 100K
R949	ERDS2TJ102	1/4W 1K
R950	ERDS2TJ104	1/4W 100K
R956, 957	ERDS2TJ102	1/4W 1K
R960	ERDS2TJ103	1/4W 10K
R961	ERDS2TJ821	1/4W 820
R962	ERDS2TJ102	1/4W 1K
R963	ERDS2TJ122	1/4W 1.2K
R964	ERDS2TJ152	1/4W 1.5K
R965	ERDS2TJ182	1/4W 1.8K
R966	ERDS2TJ222	1/4W 2.2K
R967	ERDS2TJ332	1/4W 3.3K
R968	ERDS2TJ472	1/4W 4.7K
R969	ERDS2TJ682T	1/4W 6.8K
R971	ERDS2TJ104	1/4W 100K
		CAPACITORS
C401, 402	ECKR1H103ZF5	50V 0.01U
C407, 408	ECBT1H101KB5	50V 100P
C409, 410	ECKR1H103ZF5	50V 0.01U
C411, 412	ECEA1VU4R7	35V 4.7U
C415, 416	ECKR1H103ZF5	50V 0.01U
C419	ECEA0JU101B	6.3V 100U
C421, 422	ECEA1CK220	16V 22U
C425	ECBT1H101KB5	50V 100P
C431-444	ECBT1H101KB5	50V 100P
C451, 452	ECEA1VU4R7	35V 4.7U
C453, 454	ECBT1H101KB5	50V 100P
C455, 456	ECBT1H102KB5	50V 1000P
C457, 458	ECFR1E223KR	25V 0.022U
C459, 460	ECFR1E682KR	25V 6800P
C461, 462	ECEA1VU4R7	35V 4.7U
C463, 464	ECEA1CU220	16V 22U
C513, 514	ECEA1VU4R7	35V 4.7U
C520	ECKR1H103ZF5	50V 0.01U
C531, 532	ECKR1H103ZF5	50V 0.01U
C533, 534	ECEA1CK100B	16V 10U
C535-538	ECEA1VU4R7	35V 4.7U
C550	ECBT1E223ZF	25V 0.022U
C553, 554	ECBT1H150J5	50V 15P
C555, 556	ECBT1H221KB5	50V 220P
C557, 558	ECBT1H330J5	50V 33P
C559, 560	ECEA1CPS100	16V 10U
C561, 562	ECFR1E123KR	25V 0.012U
C563, 564	ECFR1E683KR	25V 0.068U
C565, 566	ECFR1E562KR	25V 5600P

Ref. No.	Part No.	Values & Remarks
C567, 568	ECFR1E273KR	25V 0.027U
C569, 570	ECEA1CPS100	16V 10U
C571, 572	ECKR1H103ZF5	50V 0.01U
C583-586	ECFR1E104KR	25V 0.1U
C601, 602	ECEA1VU4R7	35V 4.7U
C603, 604	ECKR1H391KB5	50V 390P
C605, 606	ECEA1CU220	16V 22U
C607, 608	ECCR1H100KC5	50V 10P
C609, 610	ECCR1H151KC5	50V 150P
C611, 612	ECFR1E223KR	25V 0.022U
C613	ECEA1VU470	35V 47U
C614	ECEA1HU330	50V 33U
C615	ECEA2AU100	100V 10U
C616	ECEA2AN2R2SB	100V 2.2U ⚠
C617, 618	ECKD1H681KB	50V 680P
C651	ECEA1HK010B	50V 1U
C701, 702	ECES71V103UX	71V 10000U ⚠
C703	ECKR1H103ZF5	50V 0.01U ⚠
C705	ECEA1CK100B	16V 10U
C706	ECKR1H103ZF5	50V 0.01U
C707	ECEA2AN2R2SB	100V 2.2U
C709	ECKR1H103ZF5	50V 0.01U ⚠
C710	ECKR1H103ZF5	50V 0.01U
C711	ECEA1CU101	16V 100U
C712	ECEA1VU470	35V 47U ⚠
C771	ECKR2H103ZU	500V 0.01U ⚠
C791	ECKWKC103PF2	400V 0.01U ⚠
C901	ECEA0JU102	6.3V 1000U
C902	ECBT1C103MS5	16V 0.01U
C903	ECEA0JU471	6.3V 470U
C904	ECEA1HUR47B	50V 0.47U
C905	ECEA1HU010	50V 1U
C906	ECBT1C103MS5	16V 0.01U
C907, 908	ECFR1E563KR	25V 0.056U
C909, 910	ECEA1HU2R2	50V 2.2U
C911, 912	ECEA1VU330	35V 33U
C913, 914	ECEA1HU4R7	50V 4.7U
C919, 920	ECBT1C272MR5	16V 2700P
C930-939	ECBT1H331KB5	50V 330P
C950	ECBT1E223ZF	25V 0.022U

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET PARTS	
1	RKM0016A-K	CABINET	
2	SNE2129-1	SCREW	
3	XTBS3+8JFZ1	SCREW	
4	RGW0071	MAIN VOL. KNOB	
5	RGW0072	TONE KNOB	
7	RGR0080E-B	REAR PANEL	(GC)
7	RGR0080F-F1	REAR PANEL	(GN)
7	RGR0080E-A	REAR PANEL	(PX)
8	RGU0030	POWER BUTTON	
10	RGU0101	SP BUTTON	
11	RGU0350	SUPER BASS BUTTON	
13	RGU0349-1	SELECT BUTTON	
15	SHE187-2	HOLDER	
16	SJP9205-2T	SHORTING PIN	
17	SJS9233A	AC OUTLET COVER	(GC, PX)
18	SJS9231A	AC INLET COVER	(GC, PX)
18	SJS9234A	AC INLET COVER	(GN)
20	RFKJUG70P-K	CHASSIS ASS'Y	
20-1	SKL293	FOOT	
21	SNE2123	GND SCREW	
22	SUS894-1	SPRING	
23	SYE1128-3	FAN ASS'Y	
23-1	SHE232	FAN	
23-2	SUS271	SPRING	
23-3	SHE233	FAN CASE	
23-4	MDN-4RB4MRC	MOTOR	
23-5	SHE234	CAP	
23-6	SJT783	TERMINAL	
23-7	SJS5215	SOCKET	
24	RFKNUG70P-K1	PANEL LIGHT	
26	RFKNUG70P-K3	PANEL LIGHT	
27	RFKGUG50P-K	FRONT PANEL ASS'Y	
28	SHR9861	FL HOLDER	
29	SNE4021-1	NUT	
30	EYF52BC	FUSE HOLDER	⚠
31	XTBS26+8J	SCREW	
32	XTB3+14J	SCREW	
33	XTB3+20J	SCREW	
34	XTB3+8JFZ	SCREW	
35	XTWS3+8T	SCREW	
36	RMA0317	ANGLE	(GC, PX)
37	RMZ0111	SHEET	(GC, PX)
		PACKING MATELIAL	
P1	RPG0544	CARTON BOX	(GC, GN)
P1	RPG0545	CARTON BOX	(PX)
P2	RPN0324	PAD	
P3	XZB52X60A01Z	PROTECTION COVER	

Ref. No.	Part No.	Part Name & Description	Remarks
P4	SPSD155	ACCESSORIES BOX	
		ACCESSORIES	
A1	RQF0689	INSTRUCTIONS MANUAL ASS'Y	(GC)
A1	RQF0690	INSTRUCTIONS MANUAL ASS'Y	(GN)
A1	RQF0691	INSTRUCTIONS MANUAL ASS'Y	(PX)
A1-1	RQT0603-G	INSTRUCTIONS MANUAL	(GC)
A1-1	RQT0605-L	INSTRUCTIONS MANUAL	(GN)
A1-1	RQT0604-M	INSTRUCTIONS MANUAL	(PX)
A1-2	SQX7186	WARRANTY CARD	(GN)
A1-2	SQX7071-1	WARRANTY CARD	(PX)
A1-3	RQCB0169	SERVICENTOR LIST	(GC, GN)
A2	RJA0004	AC CORD	⚠ (GC, PX)
A2	SJA173	AC CORD	⚠ (GN)
A3	SJP2257T	REMOTE CORD	
A4	SJP9215	AC ATTACHMENT PLUG	⚠(GC, PX)

■ EXPLODED VIEW



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